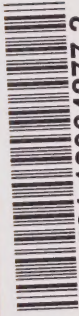


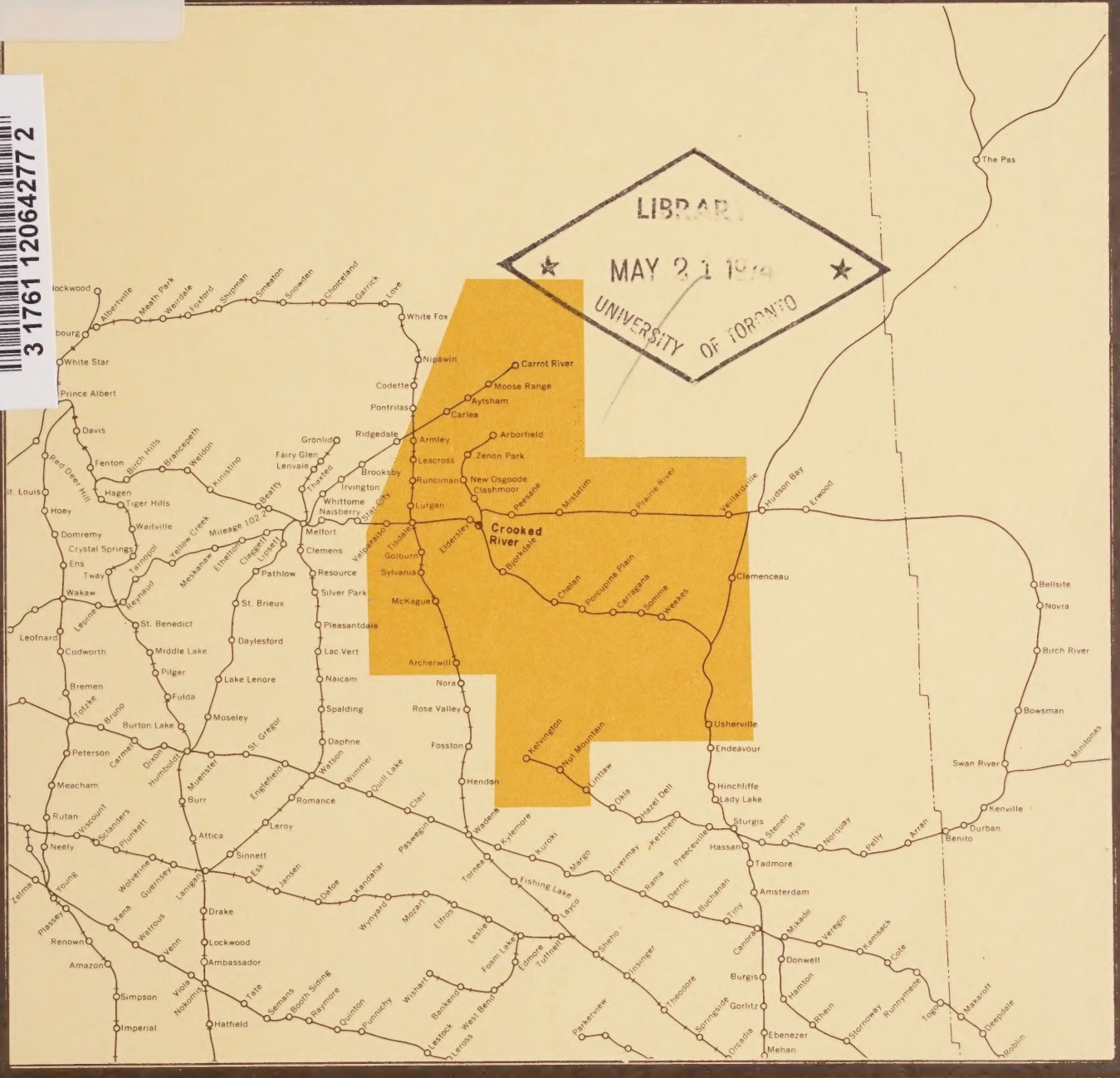
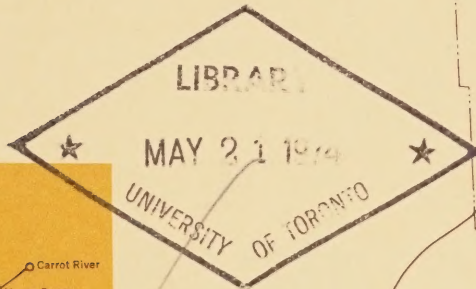
THE TISDALE REGION OF SASKATCHEWAN

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PRAIRIE REGIONAL STUDIES
IN ECONOMIC GEOGRAPHY No. 11



THE TISDALE REGION OF SASKATCHEWAN

H.R. FAST, D.A. NEIL
ECONOMICS BRANCH
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To all these people we are indebted. Any errors or omissions, however, remain the responsibility of the authors.

ERRATA

Page 76, Footnote "a" should read:

^aThe standard deviation for the total study area in 1962-63 was 273 acres and in 1969-70 it was 360 acres.

PREFACE

Bill C-120 was given first reading in the House of Commons on September 14, 1964. This was the first attempt to implement the recommendations of the MacPherson Royal Commission on Transportation. It never became law as the twenty-sixth parliament was dissolved before the bill passed through the Commons. That bill would have established the Branch Line Rationalization Authority, responsible to the Minister of Agriculture.

Bill C-231, which succeeded Bill C-120, was given first reading on August 29, 1966 and subsequently became what is now in the statutes as the National Transportation Act, R.S.C. 1970 Ch. N-17. This bill established the Canadian Transport Commission, comprising several committees, including the Railway Transport Committee. This latter committee was allocated the responsibilities which would have been given to the Branch Line Rationalization Authority. The Railway Transport Committee is responsible, through the Canadian Transport Commission to the Minister of Transport. Accordingly the Minister of Agriculture now has no direct authority in the field of branch line abandonment. However, because of the responsibilities of the Canadian Grain Commission in regulating the grain warehouse industry, the Minister of Agriculture has a direct interest in the impact of branch line rationalization on this railway-related industry. He also is concerned, of course, with the effects of such changes on the welfare of western grain producers.

Prairie Regional Studies in Economic Geography had their origin in work carried out by Mr. J.W. Channon for the Minister of Agriculture, beginning in February 1964. Later that year Mr. A.W. Burges began a study of the prairie branch line network for the Geographical Branch, Department of Mines and Technical Surveys. It seemed logical and economical to merge the two. This was done and the Riverhurst report became No. 1 in the series of Prairie Regional Studies. Following the dissolution of the Geographical Branch in 1967 the project was wholly transferred to the Canada Department of Agriculture and work continued under the direction of Mr. Channon. The present report on the Tisdale region of Saskatchewan is No. 11 in this series.

The area designated as the Tisdale region of Saskatchewan comprises 34 grain delivery points. These are first listed in Table 1.1 and again in subsequent tables as required. The factors given consideration when delineating a study region for purposes of this series include the following: (1) that the region must be a manageable size; (2) that the region must encompass one or more problem areas with regard to grain marketing; (3) that an attempt is made to draw a line around the region such that communities outside the region are not affected by the rationalization hypothesized in the study in terms of grain delivery patterns, i.e., if possible no community is to be in more than one study region; and (4) that the region and the problem areas are to be based on the railway network and country elevators existing at the time of delineation.

As noted in the previous reports, the emphasis is on grain farms and the communities and facilities serving these farms. The tabular data and their accompanying text, figures and maps describe the socio-economic activity of the region. It is hoped that this information will enable the reader to gain an appreciation of the relative importance of the farms and communities in the Tisdale region, and having done this be in a better position to assess the impact of proposed programs and contemplated changes in the infrastructure of the region.

It is readily admitted that the data contained in this report do not constitute an exhaustive coverage of all the parameters. The material being presented is intended to help those individuals and firms affected by changes to understand the rationale of any changes in grain collection and distribution, some of which have been under way for some years. Undoubtedly this will intensify over the next few years as inflationary pressures work on the cost structures of the grain production industry, the elevator industry and the railways.

This report is organized into five major parts, the first being a description of the communities themselves. The following community attributes are described: available services, population, school enrolment, postal activity, property tax assessment and transportation services. The second part describes some grain production characteristics of the region including soils, meteorological data, land values, land use, crop yields, protein content, and farm sizes and tenure. Descriptive material contained in the third part focuses on the grain marketing and handling system as it relates to the delivery points. Among other things, this includes data on the number and capacity of grain elevators, number of permit holders, grain elevator receipts, quota base, grain prices and farm to elevator grain hauling activity.

Part IV attempts to show what changes might be expected if some of the delivery points closed. It is a hypothetical exercise in which the hinterlands of certain delivery points assumed closed are diverted and added to neighboring delivery point hinterlands. Estimates are made of acreages, bushels and number of permit holders gained by delivery points remaining open, and of increased hinterland size and hauling distances.

Finally, the last part briefly describes some of the activities of the three main regulatory bodies regulating the grain industry in Canada. These are the Canadian Grain Commission, the Canadian Wheat Board and the Canadian Transport Commission. For added perspective a chronology of grain-oriented legislation and events is appended.

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PART I

COMMUNITY CHARACTERISTICS

Classification of Communities

For purposes of this study, the method of community classification is based on a modification of the system used by the Saskatchewan Royal Commission on Agriculture and Rural Life in their Report No. 12 entitled "Service Centers". The criterion used for classifying and ranking communities in the present study was the number of service activities present. Communities were classified by number of services into five categories: "too small to classify", 0-2 services; hamlets, 3-10 services; villages, 11-35 services; towns, 36-75 services; and greater towns, 76 or more services. If two or more communities had an equal number of services, they were then ranked by population.

This method of ranking is not perfect. For instance, it ignores dollar volume of retail sales in each community and it does not take into account the quality of service activities present. It appears, however, to be more meaningful than simply to rank by population.

Table 1.1 lists the communities in ascending order of rank. There were 5 communities "too small to classify", 9 hamlets, 14 villages, 2 towns and 4 greater towns. The number of services in each community, as shown in Table 1.2, served as the basis for the service classification and the initial ranking within each class. Where information was available, 1970 population estimates and preliminary 1971 population figures were used to rank by population (Table 1.4).

The type and number of services shown for each delivery point other than grain elevators may not be completely accurate. This information was gleaned from a visual field survey supplemented by telephone directories and other data on grain elevators, post offices, schools, railway stations, bus depots, and so forth. It is possible that some services were overlooked such as a door-to-door salesman or a beauty parlour in the basement of a private home. Sometimes it was difficult to know whether a particular business or meeting hall was in regular use or whether it was abandoned.

As a working definition of "service" with respect to grain elevators, the following criterion was used. The number of grain elevator companies actively receiving grain from producers either on a part or full-time basis during the 1969-70 crop year were counted. This means that the mere presence of a licensed elevator facility was not counted as a service if it was only used for storage. Furthermore, in those instances where an elevator company had more than one elevator at a particular delivery point, it was still considered to be just one service.

Figure 1.1 shows the classification of communities and their geographic location in the Tisdale study region.

Table 1.2 clearly shows the types and range of services available in various communities. Of the five delivery points "too small to classify", two had one service and three had two services. The only services present were grain elevators and group postal boxes.

The predominant activity in hamlets is the grain elevator with its associated fertilizer dealership, followed by the small general store, the service station and postal services. The general store and service station are frequently operated by a single proprietor.

A similar pattern of services holds true for villages with the main additions being a bulk fuel dealer, a garage, a hotel, a skating or curling rink, a meeting hall, a church and a school. All but two villages, Eldersley and Valparaiso, had post offices. Only two villages had a bank or a credit union. Such services as a clothing store, a lawyer, a physician and a hospital were absent.

Virtually the whole range of services is displayed in the groups of towns and greater towns. Where in villages there may have been only one establishment of the same type, in towns there are often two or more similar establishments. Some degree of specialization becomes evident. For instance, one may find a bakery in addition to the grocery store and an appliance sales and service store in addition to the hardware store. Other specialized services, not itemized in Table 1.2, were also present. Examples are dentists, drive-in eating establishments, trailer courts and ambulance services.

TABLE 1.1 CLASSIFICATION OF COMMUNITIES IN THE STUDY AREA

| Too Small to Classify 0-2 Services | Hamlets 3-10 Services | Villages 11-35 Services | Towns 36-75 Services | Greater Towns 76 or More Services |
|--|-----------------------------|-------------------------------|----------------------------|--|
| 1 Clashmoor | 6 Carlea | 15 Eldersley | 29 Zenon Park | 31 Porcupine |
| 2 Veillardville | 7 Moose Range | 16 Valparaiso | 30 Arborfield | Plain |
| 3 Golburn | 8 Usherville | 17 McKague | | 32 Kelvington |
| 4 Lurgan | 9 Peesane | 18 Sylvania | | 33 Carrot |
| 5 New Osgoode | 10 Leacross | 19 Somme | | River |
| | 11 Clemenceau | 20 Chelan | | 34 Tisdale |
| | 12 Runciman | 21 Prairie River | | |
| | 13 Armley | 22 Crooked River | | |
| | 14 Nut Mountain | 23 Carragana | | |
| | | 24 Mistatim | | |
| | | 25 Weekes | | |
| | | 26 Bjorkdale | | |
| | | 27 Aylsham | | |
| | | 28 Archerwill | | |



LEGEND

- TOO SMALL TO CLASSIFY 0 - 2 SERVICES
- HAMLETS 3 - 10 SERVICES
- ⊙ VILLAGES 11 - 35 SERVICES
- ⦿ TOWNS 36 - 75 SERVICES
- GREATER TOWNS 76 - & OVER SERVICES

CLASSIFICATION OF COMMUNITIES
TISDALE REGION OF SASKATCHEWAN, 1971

Retail Trade

Only a limited amount of information on retail trade in the study area was available; therefore it could not be used in the ranking process. Table 1.3 shows the retail sales volume of each incorporated community in the study area for census years 1961 and 1966. The number of outlets reporting in any one community often does not account for all of the retail outlets that actually operate there.

In general, retail sales volume increased with the ascending order of community rank; however considerable variation exists. It must also be remembered that the ranking was established on a 1971 basis; whereas sales volume data are based on periods five and ten years earlier.

Between 1961 and 1966 the average volume of sales per retail outlet increased at Aylsham, Archerwill, Zenon Park, Porcupine Plain, Kelvington and Tisdale, but decreased at Mistatim, Weekes and Arborfield. Data for the remaining delivery points were not available.

TABLE 1.3 RETAIL TRADE OF INCORPORATED COMMUNITIES IN THE STUDY AREA, 1961 AND 1966

| Delivery Point | No. of Outlets | 1961 | | No. of Outlets | 1966 | |
|----------------------|----------------|--------------|------------|----------------|--------------|------------|
| | | Retail Sales | | | Retail Sales | |
| | | Total | Per Outlet | | Total | Per Outlet |
| | | -\$000's- | | -\$000's- | | |
| <i>Villages</i> | | | | | | |
| 16 Valparaiso | 1 | n.a. | - | n.a. | n.a. | - |
| 23 Carragana | 5 | 263 | 53 | 2 | n.a. | - |
| 24 Mistatim | 4 | 307 | 77 | 4 | 132 | 33 |
| 25 Weekes | 4 | 180 | 45 | 8 | 347 | 43 |
| 26 Bjorkdale | 1 | n.a. | - | 3 | 204 | 68 |
| 27 Aylsham | 5 | 222 | 44 | 4 | 230 | 58 |
| 28 Archerwill | 5 | 228 | 46 | 5 | 299 | 60 |
| <i>Towns</i> | | | | | | |
| 29 Zenon Park | 8 | 269 | 34 | 7 | 380 | 54 |
| 30 Arborfield | 9 | 1,037 | 115 | 8 | 499 | 62 |
| <i>Greater Towns</i> | | | | | | |
| 31 Porcupine Plain | 21 | 1,348 | 64 | 22 | 2,048 | 93 |
| 32 Kelvington | 24 | 1,626 | 68 | 22 | 2,192 | 100 |
| 33 Carrot River | n.a. | n.a. | - | 20 | 2,266 | 113 |
| 34 Tisdale | 40 | 4,501 | 113 | 44 | 8,471 | 193 |

n.a. - Not available.

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.

Population of Communities

Total population of the communities in the study area increased by 3.6 percent between 1956 and 1971 (Table 1.4). This is slightly below the 5.4 percent increase in the provincial population for the same period. Percentage changes in each classification group are as follows: greater towns, 30.2 percent; towns, -20.6 percent; villages, -18.7 percent; hamlets, -44.4 percent (basis 1970); and "too small to classify", -53.9 percent (basis 1970). Greater towns was the only classification to experience population growth; so the increase in the study area population may, to some extent, be attributed to these communities.

Farm Population

The study area encompasses about 14 rural municipalities and one local improvement district which are listed in Table 1.5. The figures show the number of persons living on census farms.¹ In Saskatchewan farm population declined by 45.4 percent between 1941 and 1966 while in the study area farm population declined by 23.7 percent.

The combined effects of a substantial drop in farm population and an increase in total population resulted in the proportion of persons on farms declining from a provincial total of 57.4 percent in 1941 to 29.4 percent in 1966, a period of 25 years. The proportion of persons on farms in the study area in 1966 was about 60.8 percent.² These data illustrate the familiar movement of people from rural to urban residence.

¹In 1966 the term "census farm" was defined as an agricultural holding of one acre or more with sales of agricultural products, during the 12-month period prior to the census, of \$50 or more. See Agriculture Census of Canada, 1966.

²Based on a total population of 29,441 in the study area, shown in Table 1.6.

TABLE 1.4 POPULATION OF COMMUNITIES IN THE STUDY AREA, CENSUS YEARS 1941 TO 1971 AND 1970 ESTIMATES^a

| Delivery Point | 1941 | 1951 | 1956 | 1961 | 1966 | 1970 Jan. 1 Estimates | 1971 June 1 Preliminary |
|---------------------------------|---------|---------|---------|------------------|---------|-----------------------------|-------------------------------|
| <i>Too Small to Classify</i> | | | | | | | |
| 1 Clashmoor | 14 | 6 | 10 | 17 | 4 | 3 | |
| 2 Veillardville | 19 | 15 | 25 | 20 | 2 | 16 | |
| 3 Golburn | | 5 | | | | 2 | |
| 4 Lurgan | | 10 | 7 | 7 | 7 | 8 | |
| 5 New Osgoode | 39 | 55 | 60 | 33 | 36 | 18 | |
| <i>Hamlets</i> | | | | | | | |
| 6 Carlea | 32 | 28 | 13 | 9 | 10 | 7 | |
| 7 Moose Range | 14 | 38 | 43 | 28 | 20 | 11 | |
| 8 Usherville | 34 | 58 | 78 | 60 | 48 | 48 | |
| 9 Peesane | 63 | 43 | 156 | 65 | 72 | 72 | |
| 10 Leacross | 37 | 34 | 21 | 16 | 11 | 10 | |
| 11 Clemenceau | 64 | 162 | 112 | 58 | 60 | 60 | |
| 12 Runciman | 26 | 24 | 16 | 25 | 16 | 15 | |
| 13 Armley | 42 | 37 | 21 | 20 | 24 | 11 | |
| 14 Nut Mountain | 147 | 184 | 193 | 164 | 129 | 129 | |
| <i>Villages</i> | | | | | | | |
| 15 Eldersley | 60 | 68 | 58 | 42 | 38 | 45 | |
| 16 Valparaiso | 110 | 84 | 68 | 71 | 50 | | 50 |
| 17 McKague | 81 | 132 | 126 | 132 | 110 | 110 | |
| 18 Sylvania | 114 | 157 | 120 | 116 | 115 | 115 | |
| 19 Somme | 75 | 196 | 155 | 144 | 152 | 152 | |
| 20 Chelan | 90 | 122 | 115 | 115 | 95 | 95 | |
| 21 Prairie River | | 166 | 145 | 84 | 80 | 80 | |
| 22 Crooked River | 612 | 183 | 163 | 163 | 151 | 152 | |
| 23 Carragana ^b | | 233 | 268 | 257 | 160 | 130 | 137 |
| 24 Mistatim ^b | 57 | 130 | 187 | 207 | 215 | 195 | 165 |
| 25 Weekes ^b | | 247 | 286 | 294 | 221 | 190 | 183 |
| 26 Bjorkdale ^b | 130 | 122 | 192 | 209 | 244 | 245 | 223 |
| 27 Aylsham ^b | | 402 | 320 | 251 | 209 | 176 | 171 |
| 28 Archerwill ^b | | 275 | 230 | 340 ^c | 321 | 290 | 300 |
| <i>Towns</i> | | | | | | | |
| 29 Zenon Park ^b | | 413 | 411 | 384 | 379 | 350 | 350 |
| 30 Arborfield ^b | 362 | 520 | 557 | 579 | 494 | 475 | 419 |
| <i>Greater Towns</i> | | | | | | | |
| 31 Porcupine Plain ^b | | 599 | 572 | 706 ^c | 858 | 923 | 828 |
| 32 Kelvington | 615 | 906 | 819 | 885 | 980 | 1,088 | 1,057 |
| 33 Carrot River ^b | | 801 | 819 | 930 | 1,092 | 1,069 | 942 |
| 34 Tisdale | 1,237 | 2,141 | 2,104 | 2,402 | 2,914 | 2,848 | 2,789 |
| Study Area Total | 4,074 | 8,596 | 8,470 | 8,833 | 9,317 | 9,138 | 8,773 ^d |
| Province of Saskatchewan | 895,992 | 831,728 | 880,665 | 925,181 | 955,344 | 942,000 ^e | 928,000 |

^aA blank space means data were not available.

^bTowns and villages incorporated: Archerwill, Aylsham and Weekes in 1947 from the R.M. of Barrier Valley No. 397, the R.M. of Nipawin No. 487 and the R.M. of Porcupine No. 395 respectively; Arborfield as a village in 1933 and as a town in 1950 with part annexed Jan. 1, 1951 from the R.M. of Arborfield No. 456; Bjorkdale in 1968 from the R.M. of Bjorkdale No. 426; Carragana in 1948 from the R.M. of Porcupine No. 395; Carrot River as a village in 1941 and as a town in 1948 from the R.M. of Moose Range No. 486; Mistatim in 1952 from the R.M. of Bjorkdale No. 426; Porcupine Plain in 1942 from L.I.D. 395; and Zenon Park in 1941 from the R.M. of Arborfield No. 456 and the R.M. of Connaught No. 457.

^cAnnexations to towns and villages: Archerwill in 1957 from the R.M. of Barrier Valley No. 397; Carragana in 1964 from the R.M. of Porcupine No. 395; and Porcupine Plain in 1957 and 1964 from the R.M. of Porcupine No. 395.

^dThis total includes 1970 estimates where 1971 data were not available.

^eEstimate for June 1, 1970

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.
Municipal Directory, 1970, Saskatchewan Department of Municipal Affairs, Regina.
Directory of Hamlets and Settlements, 1969, Saskatchewan Department of Municipal Affairs, Regina.

TABLE 1.5 FARM POPULATION IN THE STUDY AREA BY RURAL MUNICIPALITY, CENSUS YEARS 1941 TO 1966

| Rural Municipalities | 1941 | 1951 | 1956 | 1961 | 1966 |
|---------------------------------|---------|---------|---------|---------|---------|
| <i>Census Division #10</i> | | | | | |
| 336. Sasman | 3,177 | 2,473 | 2,077 | 1,757 | 1,632 |
| <i>Census Division #14</i> | | | | | |
| 333. Clayton ^a | | | 267 | 188 | 185 |
| 334. Preeceville ^a | | | 557 | 422 | 358 |
| 335. Hazel Dell ^a | | | 295 | 239 | 193 |
| 366. Kelvington | 2,077 | 1,786 | 1,828 | 1,406 | 1,357 |
| 367. Ponass Lake | 2,848 | 2,342 | 1,921 | 1,611 | 1,503 |
| 395. Porcupine | n.a. | 2,876 | 2,501 | 1,834 | 1,960 |
| 397. Barrier Valley | 1,874 | 1,427 | 1,122 | 735 | 864 |
| 426. Bjorkdale | 1,821 | 1,389 | 2,007 | 1,536 | 1,398 |
| 427. Tisdale | 2,571 | 2,303 | 1,796 | 1,506 | 1,538 |
| 428. Star City | 2,475 | 2,039 | 1,787 | 1,518 | 1,457 |
| 456. Arborfield | 1,908 | 1,533 | 1,197 | 1,049 | 965 |
| 457. Connaught | 2,634 | 2,117 | 1,849 | 1,510 | 1,389 |
| 486. Moose Range | 2,075 | 2,316 | 2,627 | 2,119 | 2,022 |
| 944. L.I.D. | n.a. | 1,778 | 1,283 | 1,114 | 1,076 |
| Study Area Total | 23,460 | 24,379 | 23,114 | 18,544 | 17,897 |
| Farm Population of Saskatchewan | 514,677 | 399,473 | 362,231 | 305,740 | 281,089 |

n.a. - Not available.

^a In 1941 and 1951 these municipalities were all within Division #9. The figures for subsequent years represent farm population of that part of each municipality within Division #14.

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.

Population by Sex and Age Groups

Tables 1.6 and 1.7 contain 1966 Census population data for incorporated communities and for rural municipalities making up the study area as well as provincial totals. In the study area as in the province, there were more males than females. In the province 51.2 percent of the population were male; in the study area 53.1 percent were male.

The 20 to 64 age group closely represents the effective working population (Table 1.7). It comprised 47.9 percent of the population in the province and 47.6 percent of the population in the study area. People in the retired age group made up a significantly larger proportion of those living in incorporated communities than of those living on farms or in unincorporated communities. For the other age groups the proportions of people living in incorporated centers and in rural areas were about the same.

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966

| | | Years of Age | | | | | | | | | | 70 and over | |
|--------------------------|----|--------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|----------------|-------|
| | | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | | 65-69 |
| Incorporated Communities | | | | | | | | | | | | | |
| 16 Valparaíso | T. | 50 | 4 | 3 | 6 | 8 | 6 | 3 | 8 | 4 | 4 | 2 | 2 |
| | M. | 27 | 3 | 1 | 3 | 5 | 4 | 1 | 5 | 2 | 1 | 0 | 2 |
| | F. | 23 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 0 |
| 23 Carragana | T. | 160 | 11 | 14 | 18 | 15 | 9 | 13 | 15 | 18 | 18 | 10 | 19 |
| | M. | 86 | 8 | 7 | 10 | 6 | 5 | 8 | 8 | 8 | 9 | 4 | 13 |
| | F. | 74 | 3 | 7 | 8 | 9 | 4 | 5 | 7 | 10 | 9 | 6 | 6 |
| 24 Mistatim | T. | 215 | 22 | 12 | 20 | 26 | 11 | 15 | 26 | 26 | 20 | 13 | 24 |
| | M. | 124 | 11 | 7 | 14 | 16 | 5 | 10 | 11 | 15 | 10 | 6 | 19 |
| | F. | 91 | 11 | 5 | 6 | 10 | 6 | 5 | 15 | 11 | 10 | 7 | 5 |
| 25 Weekes | T. | 221 | 18 | 19 | 34 | 14 | 8 | 19 | 25 | 16 | 34 | 14 | 20 |
| | M. | 117 | 8 | 9 | 18 | 4 | 4 | 13 | 13 | 6 | 18 | 10 | 14 |
| | F. | 104 | 10 | 10 | 16 | 10 | 4 | 6 | 12 | 10 | 16 | 4 | 6 |
| 27 Aylsham | T. | 209 | 16 | 15 | 11 | 23 | 14 | 25 | 14 | 24 | 28 | 11 | 28 |
| | M. | 117 | 12 | 5 | 7 | 13 | 10 | 14 | 8 | 12 | 12 | 8 | 16 |
| | F. | 92 | 4 | 10 | 4 | 10 | 4 | 11 | 6 | 12 | 16 | 3 | 12 |
| 28 Archerwill | T. | 321 | 29 | 26 | 30 | 23 | 16 | 17 | 28 | 47 | 41 | 13 | 51 |
| | M. | 160 | 13 | 11 | 16 | 10 | 9 | 11 | 10 | 27 | 17 | 8 | 28 |
| | F. | 161 | 16 | 15 | 14 | 13 | 7 | 6 | 18 | 20 | 24 | 5 | 23 |
| 29 Zenon Park | T. | 379 | 40 | 34 | 52 | 50 | 17 | 29 | 38 | 38 | 24 | 27 | 30 |
| | M. | 174 | 18 | 18 | 26 | 27 | 4 | 12 | 17 | 17 | 7 | 10 | 18 |
| | F. | 205 | 22 | 16 | 26 | 23 | 13 | 17 | 21 | 21 | 17 | 17 | 12 |
| 30 Arborfield | T. | 494 | 51 | 69 | 44 | 36 | 13 | 53 | 52 | 42 | 39 | 35 | 60 |
| | M. | 251 | 19 | 38 | 26 | 22 | 7 | 27 | 27 | 18 | 15 | 17 | 35 |
| | F. | 243 | 32 | 31 | 18 | 14 | 6 | 26 | 25 | 24 | 24 | 18 | 25 |
| 31 Porcupine Plain | T. | 858 | 104 | 72 | 59 | 61 | 41 | 98 | 86 | 73 | 104 | 64 | 96 |
| | M. | 443 | 53 | 37 | 40 | 26 | 19 | 50 | 48 | 28 | 49 | 33 | 60 |
| | F. | 415 | 51 | 35 | 19 | 35 | 22 | 48 | 38 | 45 | 55 | 31 | 36 |

See footnotes at end of table

(continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

| | | Years of Age | | | | | | | | | | | 70 and over |
|-----------------------------------|--------------------------|--------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| | | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-69 | |
| 32 | Kelvington | | | | | | | | | | | | |
| | T. | 980 | 100 | 86 | 88 | 85 | 49 | 99 | 92 | 109 | 108 | 39 | 125 |
| | M. | 487 | 57 | 48 | 38 | 43 | 17 | 53 | 46 | 48 | 44 | 16 | 77 |
| | F. | 493 | 43 | 38 | 50 | 42 | 32 | 46 | 46 | 61 | 64 | 23 | 48 |
| 33 | Carrot River | | | | | | | | | | | | |
| | T. | 1,092 | 134 | 134 | 113 | 112 | 70 | 132 | 97 | 112 | 99 | 28 | 61 |
| | M. | 528 | 68 | 67 | 46 | 47 | 32 | 69 | 45 | 54 | 46 | 18 | 36 |
| | F. | 564 | 66 | 67 | 67 | 65 | 38 | 63 | 52 | 58 | 53 | 10 | 25 |
| 34 | Tisdale | | | | | | | | | | | | |
| | T. | 2,914 | 272 | 274 | 272 | 276 | 245 | 290 | 330 | 302 | 260 | 103 | 290 |
| | M. | 1,398 | 132 | 130 | 137 | 126 | 124 | 136 | 160 | 133 | 129 | 46 | 145 |
| | F. | 1,516 | 140 | 144 | 135 | 150 | 121 | 154 | 170 | 169 | 131 | 57 | 145 |
| Rural Municipalities ^a | | | | | | | | | | | | | |
| 336. | Sasman | | | | | | | | | | | | |
| | T. | 2,068 | 227 | 233 | 255 | 197 | 76 | 205 | 268 | 248 | 187 | 59 | 113 |
| | M. | 1,112 | 102 | 121 | 137 | 106 | 38 | 101 | 144 | 147 | 102 | 43 | 71 |
| | F. | 956 | 125 | 112 | 118 | 91 | 38 | 104 | 124 | 101 | 85 | 16 | 42 |
| 333. | Clayton ^b | | | | | | | | | | | | |
| | T. | 201 | 19 | 19 | 24 | 16 | 14 | 19 | 28 | 27 | 23 | 6 | 6 |
| | M. | 116 | 10 | 13 | 14 | 8 | 5 | 13 | 18 | 15 | 13 | 4 | 3 |
| | F. | 85 | 9 | 6 | 10 | 8 | 9 | 6 | 10 | 12 | 10 | 2 | 3 |
| 334. | Preeceville ^b | | | | | | | | | | | | |
| | T. | 413 | 30 | 34 | 48 | 38 | 14 | 36 | 65 | 63 | 38 | 18 | 29 |
| | M. | 222 | 13 | 16 | 21 | 19 | 6 | 20 | 36 | 41 | 17 | 12 | 21 |
| | F. | 191 | 17 | 18 | 27 | 19 | 8 | 16 | 29 | 22 | 21 | 6 | 8 |
| 335. | Hazel Dell ^b | | | | | | | | | | | | |
| | T. | 205 | 29 | 26 | 15 | 16 | 5 | 26 | 31 | 27 | 17 | 4 | 9 |
| | M. | 120 | 21 | 17 | 8 | 8 | 2 | 13 | 16 | 17 | 10 | 2 | 6 |
| | F. | 85 | 8 | 9 | 7 | 8 | 3 | 13 | 15 | 10 | 7 | 2 | 3 |
| 366. | Kelvington | | | | | | | | | | | | |
| | T. | 1,418 | 153 | 140 | 177 | 178 | 58 | 129 | 159 | 202 | 117 | 36 | 69 |
| | M. | 751 | 68 | 73 | 88 | 80 | 29 | 72 | 81 | 115 | 80 | 22 | 43 |
| | F. | 667 | 85 | 67 | 89 | 98 | 29 | 57 | 78 | 87 | 37 | 14 | 26 |
| 367. | Ponass Lake | | | | | | | | | | | | |
| | T. | 1,642 | 145 | 161 | 222 | 194 | 102 | 158 | 209 | 211 | 130 | 41 | 69 |
| | M. | 907 | 79 | 80 | 114 | 100 | 65 | 86 | 114 | 115 | 84 | 26 | 44 |
| | F. | 735 | 66 | 81 | 108 | 94 | 37 | 72 | 95 | 96 | 46 | 15 | 25 |

See footnotes at end of table

(continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

| | | Years of Age | | | | | | | | | | | 70 and over |
|------|-------------------------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|------------------|----------------|-----------------|
| | | Total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-69 | |
| 395. | Porcupine T. M. F. | 2,301 1,280 1,021 | 269 144 125 | 272 152 120 | 270 137 133 | 222 120 102 | 115 60 55 | 251 138 113 | 260 142 118 | 263 142 121 | 204 124 80 | 76 56 20 | 99 65 34 |
| 397. | Barrier Valley T. M. F. | 1,093 596 497 | 103 48 55 | 126 63 63 | 132 72 60 | 106 56 50 | 37 23 14 | 99 51 48 | 137 73 64 | 135 76 59 | 105 66 39 | 40 23 17 | 73 45 28 |
| 426. | Bjorkdale T. M. F. | 2,041 1,126 915 | 213 113 100 | 236 119 117 | 246 140 106 | 190 99 91 | 86 52 34 | 200 100 100 | 231 132 99 | 234 109 125 | 230 141 89 | 71 51 20 | 104 70 34 |
| 427. | Tisdale T. M. F. | 1,776 951 825 | 178 96 82 | 199 104 95 | 220 103 117 | 185 100 85 | 83 48 35 | 153 75 78 | 211 106 105 | 231 128 103 | 165 91 74 | 62 42 20 | 89 58 31 |
| 428. | Star City T. M. F. | 1,692 881 811 | 149 75 74 | 181 91 90 | 224 109 115 | 187 99 88 | 64 37 27 | 126 63 63 | 214 101 113 | 255 134 121 | 164 102 62 | 47 20 27 | 81 50 31 |
| 456. | Arborfield T. M. F. | 1,109 610 499 | 137 68 69 | 147 78 69 | 137 68 69 | 110 64 46 | 55 36 19 | 115 62 53 | 132 66 66 | 107 59 48 | 93 55 38 | 29 21 8 | 47 33 14 |
| 457. | Connaught T. M. F. | 1,566 840 726 | 153 84 69 | 181 99 82 | 212 114 98 | 168 84 84 | 90 57 33 | 148 69 79 | 186 93 93 | 204 111 93 | 123 75 48 | 33 17 16 | 68 37 31 |
| 486. | Moose Range T. M. F. | 2,149 1,159 990 | 236 120 116 | 273 134 139 | 270 137 133 | 260 142 118 | 103 65 38 | 174 87 87 | 270 132 138 | 263 159 104 | 185 110 75 | 47 29 18 | 68 44 24 |
| 944. | L. I. D. T. M. F. | 1,874 1,038 836 | 242 112 130 | 200 95 105 | 202 103 99 | 179 94 85 | 113 70 43 | 255 151 104 | 210 120 90 | 188 111 77 | 170 113 57 | 50 30 20 | 65 39 26 |

See footnotes at end of table (continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (concluded)

| | | Years of Age | | | | | | | | | | | |
|--------------------|----|--------------|---------|---------|---------|--------|--------|---------|---------|---------|--------|--------|-------------|
| | | total | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-69 | 70 and over |
| Study Area Total | T. | 29,441 | 3,084 | 3,186 | 3,401 | 2,975 | 1,514 | 2,887 | 3,422 | 3,469 | 2,730 | 978 | 1,795 |
| | M. | 15,621 | 1,555 | 1,633 | 1,746 | 1,524 | 833 | 1,505 | 1,772 | 1,847 | 1,540 | 574 | 1,092 |
| | F. | 13,820 | 1,529 | 1,553 | 1,655 | 1,451 | 681 | 1,382 | 1,650 | 1,622 | 1,190 | 404 | 703 |
| Saskatchewan Total | T. | 955,344 | 107,515 | 110,130 | 103,304 | 88,412 | 62,150 | 104,651 | 110,413 | 103,270 | 76,617 | 27,264 | 61,618 |
| | M. | 489,040 | 54,979 | 56,128 | 53,042 | 44,786 | 31,551 | 53,255 | 56,052 | 52,290 | 40,352 | 14,057 | 32,548 |
| | F. | 466,304 | 52,536 | 54,002 | 50,262 | 43,626 | 30,599 | 51,396 | 54,361 | 50,980 | 36,265 | 13,207 | 29,070 |

T. - Total M. - Male F. - Female

^aRural municipality data include farm and unincorporated community population but exclude populations of incorporated communities.
^bPart of municipality.

Source: Census of Canada, 1966, Dominion Bureau of Statistics, Ottawa.

TABLE 1.7 PROPORTION OF POPULATION FALLING WITHIN THREE SPECIFIED AGE GROUPS, 1966

| | Pre-School and School Age Groups (0 to 19 Years) | Working Age Group (20 to 64) | Retired Age Group (65 and Over) |
|---------------------------------|--|------------------------------------|---------------------------------------|
| | - percent - | | |
| <i>Incorporated Communities</i> | | | |
| 16 Valparaiso | 42.0 | 50.0 | 8.0 |
| 23 Carragana | 36.3 | 45.6 | 18.1 |
| 24 Mistatim | 37.2 | 45.6 | 17.2 |
| 25 Weekes | 38.5 | 46.1 | 15.4 |
| 27 Aylsham | 31.1 | 50.2 | 18.7 |
| 28 Archerwill | 33.7 | 46.4 | 19.9 |
| 29 Zenon Park | 46.4 | 38.5 | 15.1 |
| 30 Arborfield | 40.5 | 40.3 | 19.2 |
| 31 Porcupine Plain | 34.5 | 46.9 | 18.6 |
| 32 Kelvington | 36.6 | 46.6 | 16.8 |
| 33 Carrot River | 45.1 | 46.7 | 8.2 |
| 34 Tisdale | 37.5 | 49.0 | 13.5 |
| <i>Rural Municipalities</i> | | | |
| 336. Sasman | 44.1 | 47.6 | 8.3 |
| 333. Clayton | 38.8 | 55.2 | 6.0 |
| 334. Preeceville | 36.3 | 52.3 | 11.4 |
| 335. Hazel Dell | 42.0 | 51.7 | 6.3 |
| 366. Kelvington | 45.7 | 46.9 | 7.4 |
| 367. Ponass Lake | 44.0 | 49.3 | 6.7 |
| 395. Porcupine | 44.9 | 47.5 | 7.6 |
| 397. Barrier Valley | 42.7 | 47.0 | 10.3 |
| 426. Bjorkdale | 43.3 | 48.1 | 8.6 |
| 427. Tisdale | 44.0 | 47.5 | 8.5 |
| 428. Star City | 43.8 | 48.6 | 7.6 |
| 456. Arborfield | 47.9 | 45.3 | 6.8 |
| 457. Connaught | 45.6 | 48.0 | 6.4 |
| 486. Moose Range | 48.3 | 46.3 | 5.4 |
| 944. L.I.D. | 43.9 | 50.0 | 6.1 |
| Study Area Total | 43.0 | 47.6 | 9.4 |
| Saskatchewan Total | 42.8 | 47.9 | 9.3 |

Source: Calculated from Table 1.6.

School Enrolment

It is evident from school enrolment figures in Table 1.8 that the trend in Western Canada towards school consolidation has affected the Tisdale study area. There were no schools in communities "too small to classify" and hamlets. Only two villages, Weekes and Bjorkdale, offered complete elementary and high school grades. Three villages, Eldersley, Valparaiso and Somme, had no schools but the other villages offered up to grade six or higher. All elementary and secondary grades were available in the towns and greater towns.

TABLE 1.8 SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1971-72

| Delivery Point | Kind. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Aux. | Total | Pupils Conveyed to (Grades) |
|------------------------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|------|-------|---|
| - enrolment - | | | | | | | | | | | | | | | | |
| <i>Too Small to Classify</i> | | | | | | | | | | | | | | | | |
| 1 Clashmoor | No School | | | | | | | | | | | | | | | Tisdale (1-12) |
| 2 Veillardville | No School | | | | | | | | | | | | | | | Hudson Bay (1-12) |
| 3 Golburn | No School | | | | | | | | | | | | | | | Tisdale (1-12) |
| 4 Lurgan | No School | | | | | | | | | | | | | | | Tisdale (1-12) |
| 5 New Osgoode | No School | | | | | | | | | | | | | | | Tisdale (1-12) |
| <i>Hamlets</i> | | | | | | | | | | | | | | | | |
| 6 Carlea | No School | | | | | | | | | | | | | | | Aylsham (1-6); Nipawin (7-12) |
| 7 Moose Range | No School | | | | | | | | | | | | | | | Carrot River (1-12) |
| 8 Peesane | No School | | | | | | | | | | | | | | | Crooked River (1-9), Tisdale (10-12) |
| 9 Usherville | No School | | | | | | | | | | | | | | | Endeavour (1-8), Sturgis (8-12) |
| 10 Clemenceau | No School | | | | | | | | | | | | | | | Hudson Bay (1-12) |
| 11 Leacross | No School | | | | | | | | | | | | | | | Tisdale (1-12) |
| 12 Runciman | No School | | | | | | | | | | | | | | | Ridgedale (1-9), Tisdale (10-12) |
| 13 Armley | No School | | | | | | | | | | | | | | | Kelvington (1-12) |
| 14 Nut Mountain | No School | | | | | | | | | | | | | | | |
| <i>Villages</i> | | | | | | | | | | | | | | | | |
| 15 Eldersley | No School | | | | | | | | | | | | | | | Tisdale (1-12) |
| 16 Valparaiso | No School | | | | | | | | | | | | | | | Tisdale (1-12) |
| 17 McKague | No School | 12 | 10 | 6 | 16 | 9 | 7 | 13 | 7 | | | | | | 80 | Tisdale (9-12) |
| 18 Sylvia | No School | 6 | 8 | 9 | 6 | 8 | 13 | 8 | 12 | | | | | | 70 | Tisdale (9-12) |
| 19 Somme | No School | | | | | | | | | | | | | | | Weekes (1-12) |
| 20 Chelan | | 6 | 3 | 5 | 9 | 11 | 7 | 6 | | | | | | | 47 | Porcupine Plain (8-12) |
| 21 Prairie River | | 9 | 13 | 12 | 10 | 16 | 12 | 10 | 10 | | | | | | 92 | Porcupine Plain (9-12) |
| 22 Crooked River | | 7 | 9 | 14 | 6 | 6 | 9 | 10 | 12 | 9 | | | | | 82 | Tisdale (10-12) |
| 23 Carragana | | 15 | 13 | 15 | 11 | 10 | 12 | 10 | | | | | | 8 | 94 | Porcupine Plain (8-12) |
| 24 Mistatim | | 12 | 11 | 4 | 10 | 11 | 9 | 9 | 12 | 7 | 5 | | | | 90 | Tisdale (11 & 12) |
| 25 Weekes | | 30 | 14 | 16 | 19 | 29 | 19 | 19 | 19 | 22 | 18 | 17 | 6 | | 228 | |
| 26 Bjorkdale | | 20 | 25 | 23 | 24 | 20 | 27 | 19 | 27 | 22 | 21 | 20 | 10 | | 258 | |
| 27 Aylsham | 9 | 8 | 10 | 8 | 12 | 6 | 9 | | | | | | | | 62 | Nipawin (7-12) |
| 28 Archerwill | | 19 | 20 | 22 | 19 | 17 | 17 | 28 | 22 | 18 | | | | | 182 | Rose Valley (10-12) |
| <i>Towns</i> | | | | | | | | | | | | | | | | |
| 29 Zenon Park | | 16 | 22 | 28 | 16 | 22 | 18 | 26 | 27 | 28 | 17 | 18 | 13 | 9 | 260 | |
| 30 Arborfield | | 27 | 30 | 30 | 25 | 39 | 33 | 26 | 30 | 39 | 14 | 19 | 16 | | 328 | |

See footnotes at end of table

(continued)

TABLE 1.8 SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1971-72 (concluded)

| Delivery Point | Kind. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Aux. | Total | Pupils Conveyed to (Grades) |
|----------------------|-------|----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|------|-------|--------------------------------|
| - enrolment - | | | | | | | | | | | | | | | | |
| <i>Greater Towns</i> | | | | | | | | | | | | | | | | |
| 31 Porcupine Plain | | 32 | 39 | 34 | 54 | 49 | 31 | 35 | 52 | 57 | 35 | 32 | 35 | | 485 | |
| 32 Kelvington | | 40 | 55 | 55 | 52 | 51 | 48 | 55 | 60 | | 71 | 80 | 61 | | 628 | |
| 33 Carrot River | | 75 | 66 | 69 | 52 | 70 | 75 | 81 | 61 | 78 | 55 | 37 | 33 | | 752 | |
| 34 Tisdale | | 82 | 109 | 93 | 90 | 98 | 89 | 109 | 100 | 119 | 108 | 112 | 144 | 7 | 1,260 | |

Kind. - Kindergarten

Aux. - Auxiliary classes

Source: Saskatchewan Department of Education, Regina.

Post Office Revenue

Post office revenue serves as a crude indicator of socio-economic activity in a community and its environs (Table 1.9). The last post office in communities "too small to classify" closed at Clashmoor in 1970. Lurgan is the only community that has never had a post office. In 1970 group postal boxes, where mail for local residents is deposited, were placed in six of the nine hamlets. Post offices in Clashmoor, Eldersley and Valparaiso were also replaced in 1970 by group boxes. No revenue is generated under these circumstances.

In 1971, postal revenue in villages ranged from \$1,387 in McKague to \$6,188 in Archerwill; while the towns of Zenon Park and Arborfield showed revenues of \$5,366 and \$8,368 respectively. The range of postal revenues in greater towns was from \$16,537 to \$63,541.

Postal revenues in all villages, towns and greater towns have increased over time. The largest percentage increase occurred at Bjorkdale where the increase was about 130 percent between 1963 and 1971. Other communities to double their postal revenues were Archerwill, Zenon Park and Porcupine Plain.

TABLE 1.9 POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS 1962-63 TO 1970-71

| Delivery Point | Year Ending March 31 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 |
|------------------------------|-------------------------|-------|-------|--------------------------|-------|-------|-------|--------------------------------|-------|--------------------------------|
| | | | | | | | | | | |
| - dollars - | | | | | | | | | | |
| <i>Too Small to Classify</i> | | | | | | | | | | |
| 1 Clashmoor | | 183 | 197 | 196 | 176 | 138 | 126 | 117 | 176 | Closed March 1970 ^a |
| 2 Veillardville | | 252 | 171 | Closed 1964 ^b | | | | | | |
| 3 Goltburn | | 197 | 200 | 281 | 234 | 298 | 284 | Closed March 1968 ^a | | |
| 4 Lurgan | No Post Office | | | | | | | | | |
| 5 New Osgoode | | 324 | 317 | 342 | 370 | 366 | 328 | 317 | 133 | Closed Sept. 1969 ^c |
| <i>Hamlets</i> | | | | | | | | | | |
| 6 Carlea | | 203 | 191 | 208 | 186 | 165 | 179 | 200 | 221 | 264 |
| 7 Moose Range | | 294 | 283 | 296 | 249 | 180 | 275 | 282 | 312 | 279 |
| 8 Usherville | | 516 | 457 | 477 | 497 | 447 | 436 | 518 | 521 | 38 |
| 9 Peesane | | 281 | 323 | 342 | 381 | 344 | 364 | 316 | 288 | Closed April 1970 ^d |
| 10 Leacross | | 511 | 585 | 631 | 715 | 522 | 491 | 453 | 432 | Closed Sept. 1970 ^e |
| 11 Clemenceau | | 366 | 364 | 399 | 315 | 279 | 268 | 280 | 318 | Closed March 1970 ^f |
| 12 Runciman | | 429 | 354 | 393 | 366 | 324 | 359 | 361 | 358 | Closed April 1970 ^b |
| 13 Armley | | 569 | 608 | 630 | 641 | 610 | 546 | 571 | 591 | Closed March 1970 ^a |
| 14 Nut Mountain | | 1,172 | 1,062 | 1,080 | 967 | 889 | 880 | 817 | 954 | Closed March 1970 ^f |
| | | | | | | | | | | 1,321 |
| <i>Villages</i> | | | | | | | | | | |
| 15 Eldersley | | 472 | 449 | 545 | 560 | 524 | 594 | 611 | 807 | Closed March 1970 ^a |
| 16 Valparaíso | | 550 | 550 | 604 | 556 | 523 | 500 | 555 | 712 | Closed March 1970 ^a |
| 17 McKague | | 1,044 | 1,071 | 1,122 | 1,055 | 1,010 | 968 | 948 | 1,146 | 1,387 |
| 18 Sylvia | | 1,203 | 1,281 | 1,349 | 1,305 | 1,187 | 1,197 | 1,160 | 1,149 | 1,672 |
| 19 Somme | | 1,379 | 1,403 | 1,370 | 1,357 | 1,385 | 1,388 | 1,473 | 1,474 | 2,035 |
| 20 Chelan | | 1,111 | 1,152 | 1,231 | 1,239 | 1,186 | 1,243 | 1,314 | 1,513 | 2,041 |
| 21 Prairie River | | 1,113 | 1,136 | 1,365 | 1,172 | 1,170 | 1,168 | 1,139 | 1,307 | 1,814 |
| 22 Crooked River | | 1,103 | 1,226 | 1,294 | 1,157 | 1,222 | 1,250 | 1,219 | 1,399 | 1,794 |
| 23 Carragana | | 2,124 | 2,295 | 2,228 | 2,279 | 2,075 | 1,946 | 1,949 | 1,889 | 2,360 |
| 24 Mistatim | | 1,445 | 1,526 | 1,760 | 1,640 | 1,631 | 1,770 | 1,765 | 1,955 | 2,745 |
| 25 Weekes | | 2,067 | 2,148 | 2,178 | 2,144 | 2,120 | 2,119 | 2,095 | 2,528 | 3,603 |
| 26 Bjorkdale | | 1,757 | 2,010 | 2,397 | 2,231 | 2,259 | 2,601 | 2,562 | 2,783 | 4,046 |
| 27 Aylsham | | 2,667 | 2,788 | 2,963 | 2,946 | 2,796 | 2,953 | 2,829 | 3,234 | 4,262 |
| 28 Archerwill | | 3,052 | 3,305 | 3,689 | 3,703 | 3,859 | 4,245 | 4,219 | 4,653 | 6,188 |

See footnotes at end of table

(continued)

TABLE 1.9 POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS 1962-63 TO 1970-71 (concluded)

| Delivery Point | Year Ending March 31 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 |
|----------------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | | | | | |
| <i>Towns</i> | | | | | | | | | | |
| 29 Zenon Park | | 2,581 | 2,466 | 2,767 | 2,957 | 2,959 | 3,279 | 3,368 | 3,950 | 5,366 |
| 30 Arborfield | | 5,147 | 5,535 | 5,911 | 5,743 | 5,491 | 6,238 | 6,127 | 6,346 | 8,368 |
| <i>Greater Towns</i> | | | | | | | | | | |
| 31 Porcupine Plain | | 7,792 | 8,543 | 9,457 | 10,423 | 10,672 | 11,866 | 12,227 | 13,994 | 16,537 |
| 32 Kelvington | | 11,621 | 12,433 | 14,665 | 14,024 | 13,533 | 13,450 | 13,856 | 15,761 | 19,765 |
| 33 Carrot River | | 12,633 | 12,030 | 12,568 | 13,253 | 14,259 | 14,990 | 15,697 | 17,582 | 21,718 |
| 34 Tisdale | | 33,258 | 34,949 | 38,017 | 40,255 | 42,026 | 43,894 | 47,941 | 55,678 | 63,541 |

- dollars -

^aGroup postal boxes served by Tisdale.

^bGroup postal boxes served by Hudson Bay.

^cGroup postal boxes served by Zenon Park.

^dGroup postal boxes served by Endeavour.

^eGroup postal boxes served by Crooked River.

^fGroup postal boxes served by Ridgedale.

Source: Canada Post Office Department, Saskatoon.

Property Tax Assessment

Table 1.10 presents details of tax assessment for each of the 34 grain delivery points in the Tisdale study region. The purpose of this table is to show the relative importance of railway and railway associated properties to the tax base of a community. To convey this relationship, the total assessment of railway right-of-way properties, including trackage, warehouses, bulk fuel tanks, grain elevators, etc., as a percent of the total tax assessment of the community is used.

Generally speaking, the smaller the community the higher is the proportion of its tax base related to right-of-way properties. For example, 100 percent of the tax base in Veillardville is made up of railway property while Tisdale only derives about six percent of its taxes from right-of-way properties. This relationship, of course, reflects the greater diversification of economic activities in larger centers.

Calculated on the basis of each community classification group (figures not shown in Table 1.10), railway and railway associated assessments amount to the following percentages of the tax base: 85 percent in centers "too small to classify", 58 percent in hamlets, 35 percent in villages, 22 percent in towns and 9 percent in greater towns.

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971

| | Too Small to Classify | | | | | Hamlets |
|--|-----------------------|-----------------|-----------|----------|---------------|------------------|
| | 1 Clashmoor | 2 Veillardville | 3 Golburn | 4 Lurgan | 5 New Osgoode | 6 Carleton Place |
| - dollars - | | | | | | |
| <i>Right-of-Way Properties</i> | | | | | | |
| Railway Property | * | * | * | * | * | * |
| Roadway | 340 | 200 | 650 | 240 | 360 | 270 |
| Other Land | - | 250 | - | - | 160 | 260 |
| Buildings | - | - | - | - | - | 100 |
| Business | - | - | - | - | - | - |
| Other Property | | | | | | |
| Taxable Land | - | - | 80 | 200 | 190 | 50 |
| Taxable Buildings | - | - | 9,130 | 19,090 | 15,980 | 11,530 |
| Taxable Business | - | - | 1,930 | 3,040 | 3,770 | 2,050 |
| Total Assessment of R.O.W. Properties | 340 | 450 | 11,790 | 22,570 | 20,460 | 14,260 |
| <i>Non-Right-of-Way Properties</i> | | | | | | |
| Taxable Land | 60 | - | 100 | 100 | 150 | 410 |
| Taxable Buildings | 720 | - | - | 2,620 | 6,240 | 2,860 |
| Taxable Business | - | - | - | - | - | 890 |
| Total Assessment of Non-Right-of-Way Properties | 780 | - | 100 | 2,720 | 6,390 | 4,160 |
| Total Tax Assessment | 1,120 | 450 | 11,890 | 25,290 | 26,850 | 18,420 |
| Right-of-Way Assessment as a Percent of Total Assessment | 30.36 | 100.0 | 99.16 | 89.24 | 76.20 | 77.42 |

See footnotes at end of table

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

| | Hamlets (cont'd) | | | | | |
|--|------------------|--------------|-----------|-------------|---------------|-------------|
| | 7 Moose Range | 8 Usherville | 9 Peesane | 10 Leacross | 11 Clemenceau | 12 Runciman |
| | - dollars - | | | | | |
| <i>Right-of-Way Properties</i> | | | | | | |
| Railway Property | * | * | * | * | * | * |
| Roadway | 460 | 550 | 520 | 560 | 460 | 750 |
| Other Land | - | 730 | - | 370 | 370 | 760 |
| Buildings | - | 100 | - | 100 | 100 | 100 |
| Business | - | | | | | |
| Other Property | | | | | | |
| Taxable Land | 130 | 80 | 70 | 90 | 50 | 240 |
| Taxable Buildings | 22,080 | 7,030 | 7,700 | 10,810 | 7,820 | 22,830 |
| Taxable Business | 4,640 | 1,560 | 1,540 | 2,480 | 1,540 | 2,880 |
| Total Assessment of R.O.W. Properties | 27,310 | 10,050 | 9,830 | 14,410 | 10,340 | 27,560 |
| <i>Non-Right-of-Way Properties</i> | | | | | | |
| Taxable Land | 540 | 2,700 | 1,550 | 570 | 1,230 | 480 |
| Taxable Buildings | 4,610 | 13,070 | 8,490 | 4,830 | 15,520 | 4,910 |
| Taxable Business | 320 | 2,700 | - | 1,650 | 1,040 | 1,190 |
| Total Assessment of Non-Right-of-Way Properties | 5,470 | 18,470 | 10,040 | 7,050 | 17,790 | 6,580 |
| Total Tax Assessment | 32,780 | 28,520 | 19,870 | 21,460 | 28,130 | 34,140 |
| Right-of-Way Assessment as a Percent of Total Assessment | 83.31 | 35.24 | 49.47 | 67.15 | 36.76 | 80.73 |

See footnotes at end of table.

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

| | Hamlets (con'd) | | | Villages | | | |
|--|-----------------|-----------------|--------------|---------------|------------|-------------|-------------|
| | 13 Armley | 14 Nut Mountain | 15 Eldersley | 16 Valparaiso | 17 McKague | 18 Sylvania | |
| | - dollars - | | | | | | |
| <i>Right-of-Way Properties</i> | | | | | | | |
| Railway Property | * | * | * | 1,530 | * | * | * |
| Roadway | | 520 | 380 | 550 | 970 | 1,350 | |
| Other Land | 740 | 170 | 2,080 | 40 | 1,030 | - | |
| Buildings | - | - | 100 | - | 100 | - | |
| Business | - | - | | | | | |
| Other Property | | | | | | | |
| Taxable Land | 300 | 310 | 250 | 290 | 370 | 790 | |
| Taxable Buildings | 18,020 | 43,390 | 26,570 | 56,790 | 9,740 | 36,910 | |
| Taxable Business | 3,320 | 7,780 | 4,870 | 11,050 | 3,640 | 3,720 | |
| Total Assessment of R.O.W. Properties | 22,380 | 52,170 | 34,250 | 70,250 | 15,850 | 42,770 | |
| <i>Non-Right-of-Way Properties</i> | | | | | | | |
| Taxable Land | 530 | 5,100 | 9,810 | 5,900 | 6,550 | 5,450 | |
| Taxable Buildings | 6,720 | 47,100 | 26,740 | 26,310 | 37,560 | 61,930 | |
| Taxable Business | 1,830 | 6,740 | 990 | - | 3,220 | 5,360 | |
| Total Assessment of Non-Right-of-Way Properties | 9,080 | 58,940 | 37,540 | 32,210 | 47,330 | 72,740 | |
| Total Tax Assessment | 31,460 | 111,110 | 71,790 | 102,460 | 63,180 | 115,510 | |
| Right-of-Way Assessment as a Percent of Total Assessment | 71.14 | 46.95 | 47.71 | 68.56 | 25.09 | 37.03 | |
| See footnotes at end of table | | | | | | | (continued) |

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

| | Villages (cont'd) | | | | | |
|--|-------------------|-----------|------------------|------------------|--------------|-------------|
| | 19 Somme | 20 Chelan | 21 Prairie River | 22 Crooked River | 23 Carragana | 24 Mistatim |
| | - dollars - | | | | | |
| Right-of-Way Properties | | | | | | |
| Railway Properties | | | | | | |
| Roadway | * | * | * | * | 2,250 | 1,980 |
| Other Land | 680 | 540 | 570 | 310 | 700 | 1,160 |
| Buildings | 1,680 | 770 | 4,030 | 4,050 | 650 | 2,950 |
| Business | 270 | 590 | 710 | 1,680 | 570 | 780 |
| Other Property | | | | | | |
| Taxable Land | 410 | 240 | 230 | 260 | 510 | 950 |
| Taxable Buildings | 31,340 | 23,740 | 30,830 | 30,420 | 28,320 | 58,560 |
| Taxable Business | 7,690 | 4,700 | 5,400 | 4,660 | 6,670 | 15,190 |
| Total Assessment of R.O.W. Properties | 42,070 | 30,580 | 41,770 | 41,380 | 39,670 | 81,570 |
| Non-Right-of-Way Properties | | | | | | |
| Taxable Land | 7,150 | 5,660 | 3,470 | 6,500 | 17,210 | 13,070 |
| Taxable Buildings | 37,340 | 50,830 | 27,560 | 41,950 | 66,400 | 92,790 |
| Taxable Business | 2,590 | 7,310 | 3,140 | 6,290 | 6,950 | 11,880 |
| Total Assessment of Non-Right-of-Way Properties | 47,080 | 63,800 | 34,170 | 54,740 | 90,560 | 117,740 |
| Total Tax Assessment | 89,150 | 94,380 | 75,940 | 96,120 | 130,230 | 199,310 |
| Right-of-Way Assessment as a Percent of Total Assessment | 47.19 | 32.40 | 55.00 | 43.05 | 30.46 | 40.93 |

See footnotes at end of table

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

| | Villages (cont'd) | | | | Towns | | |
|--|-------------------|--------------|------------|---------------|---------------|---------------|-------------|
| | 25 Weekes | 26 Bjorkdale | 27 Aylsham | 28 Archerwill | 29 Zenon Park | 30 Arborfield | |
| | | | | | | | - dollars - |
| <i>Right-of-Way Properties</i> | | | | | | | |
| Railway Properties | | | | | | | |
| Roadway | 2,010 | 2,940 | 1,800 | 1,860 | 2,130 | 4,350 | |
| Other Land' | 970 | 930 | 1,410 | 2,020 | 1,780 | 3,990 | |
| Buildings | 670 | 2,070 | 3,680 | 2,450 | 1,220 | 2,840 | |
| Business | 590 | 720 | 940 | 750 | 680 | 840 | |
| Other Property | | | | | | | |
| Taxable Land | 450 | 530 | 1,310 | 1,680 | 1,440 | 3,970 | |
| Taxable Buildings | 31,350 | 41,310 | 99,440 | 58,940 | 49,360 | 116,000 | |
| Taxable Business | 5,120 | 5,650 | 21,190 | 9,010 | 6,080 | 25,470 | |
| Total Assessment of R.O.W. Properties | 41,160 | 54,150 | 129,770 | 76,710 | 62,690 | 157,460 | |
| <i>Non-Right-of-Way Properties</i> | | | | | | | |
| Taxable Land | 21,440 | 20,405 | 30,770 | 37,380 | 49,390 | 61,235 | |
| Taxable Buildings | 97,400 | 116,640 | 158,340 | 191,260 | 267,630 | 317,760 | |
| Taxable Business | 19,990 | 18,980 | 26,610 | 34,670 | 37,530 | 59,060 | |
| Total Assessment of Non-Right-of-Way Properties | 138,830 | 156,025 | 215,720 | 263,310 | 354,550 | 438,055 | |
| Total Tax Assessment | 179,990 | 210,175 | 345,490 | 340,020 | 417,240 | 595,515 | |
| Right-of-Way Assessment as a Percent of Total Assessment | 22.87 | 25.76 | 37.56 | 22.56 | 15.02 | 26.44 | |

See footnotes at end of table (continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (concluded)

| | <i>Greater Towns</i> | | | |
|--|----------------------|---------------|-----------------|------------|
| | 31 Porcupine Plain | 32 Kelvington | 33 Carrot River | 34 Tisdale |
| | - dollars - | | | |
| <i>Right-of-Way Properties</i> | | | | |
| Railway Properties | | | | |
| Roadway | 5,500 | 5,250 | 3,800 | 9,690 |
| Other Land | 3,850 | 9,940 | 7,930 | 28,220 |
| Buildings | 5,920 | 3,670 | 7,860 | 9,450 |
| Business | 1,570 | 1,010 | 1,440 | 5,140 |
| Other Property | | | | |
| Taxable Land | 3,480 | 9,680 | 7,070 | 27,940 |
| Taxable Buildings | 53,340 | 152,180 | 162,040 | 153,270 |
| Taxable Business | 19,520 | 49,530 | 28,580 | 70,690 |
| Total Assessment of R.O.W. Properties | 93,180 | 231,260 | 218,720 | 304,400 |
| <i>Non-Right-of-Way Properties</i> | | | | |
| Taxable Land | 210,070 | 273,615 | 184,930 | 1,114,120 |
| Taxable Buildings | 790,850 | 1,014,870 | 908,820 | 2,957,000 |
| Taxable Business | 132,220 | 213,470 | 207,240 | 655,550 |
| Total Assessment of Non-Right-of-Way Properties | 1,133,140 | 1,501,955 | 1,300,990 | 4,726,670 |
| Total Tax Assessment | 1,226,320 | 1,733,215 | 1,519,710 | 5,031,070 |
| Right-of-Way Assessment as a Percent of Total Assessment | 7.60 | 13.34 | 14.39 | 6.05 |

R.O.W. - Right-of-Way

*Tax assessment of rail roadway property in unincorporated communities is included as part of total rural municipality tax assessments.

Source: Saskatchewan Department of Municipal Affairs, Regina.

Carload Rail Traffic

The volume of rail traffic to and from a community is another indicator of economic activity although truck traffic should also be considered to obtain a more complete picture. Generally the more people and service activities there are in a community, the more freight traffic is generated. Grain shipments at a particular delivery point depend on such inter-related factors as size of hinterland, number of permit holders, crop yields, and domestic and export marketings.

Table 1.11 shows the number of carloads shipped in and out of each delivery point in the study area from 1966 to 1971.¹ The traffic is broken down into five broad categories.

Delivery points "too small to classify" had very little traffic. What there was generally declined over time and was mostly outbound grain traffic. In 1971 New Osgoode had the most carloads, 96, outbound.

The volume of traffic for hamlets ranged from 28 cars to 262 cars outbound in 1971. There was very little inbound traffic with the maximum of five cars occurring at Runciman.

Grain shipments also accounted for most of the outbound rail traffic of villages. With 345 carloads, Aylsham had the most outbound traffic in 1971. The few inbound shipments were mostly manufactures and miscellaneous products.

The traffic pattern for towns and greater towns is essentially the same as it is for hamlets and villages; that is, outbound grain is the most important commodity, outbound traffic greatly exceeds inbound traffic, and inbound traffic is made up of a variety of products such as coal, lumber and building supplies, fertilizer, fuel oil, agricultural supplies and machinery. Of course the traffic volume is higher in towns and greater towns than in smaller centers. In 1971 total carload movements ranged from 325 cars at Porcupine Plain to 1,682 cars at Carrot River.

¹ Carload rail traffic data prior to 1966 were not available.

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971

| Delivery Point | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|------------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out |
| <i>Too Small to Classify</i> | | | | | | | | | | | | |
| 1 Clashmoor | | | | | | | | | | | | |
| Products of Agriculture | - | 24 | - | - | - | - | - | - | - | - | - | 1 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | 24 | - | - | - | - | - | - | - | - | - | 1 |
| 2 Veillardville | | | | | | | | | | | | |
| Products of Agriculture | - | 32 | - | 12 | - | - | - | - | - | - | - | 2 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | 2 | - | - | - | - | - | - | - | 1 | - | - |
| Manufactures and Misc. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | 34 | - | 12 | - | - | - | - | - | 1 | - | 2 |
| 3 Golburn | | | | | | | | | | | | |
| Products of Agriculture | - | 37 | - | 21 | - | 26 | - | 16 | - | 21 | - | 12 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 2 | - | - | - | - | - | 1 | - | - | - | - | - |
| Total | 2 | 37 | - | 21 | - | 26 | 1 | 16 | - | 21 | - | 12 |
| 4 Lurgan | | | | | | | | | | | | |
| Products of Agriculture | - | 115 | - | 80 | - | 58 | 1 | 56 | - | 76 | - | 88 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 1 | - | 2 | - | 2 | - | 1 | 1 | - | - | - | - |
| Total | 1 | 115 | 2 | 80 | 2 | 58 | 2 | 57 | - | 76 | - | 88 |
| 5 New Osgoode | | | | | | | | | | | | |
| Products of Agriculture | - | 138 | - | 120 | - | 96 | - | 60 | - | 107 | - | 96 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | 1 | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 2 | - | 3 | - | 3 | - | - | - | - | - | 1 | - |
| Total | 3 | 138 | 3 | 120 | 3 | 96 | - | 60 | - | 107 | 1 | 96 |

- carloads -

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

| Delivery Point | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|-------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out |
| - carloads - | | | | | | | | | | | | |
| <i>Hamlets</i> | | | | | | | | | | | | |
| 6 Carlea | | | | | | | | | | | | |
| Products of Agriculture | - | 68 | - | 56 | - | 46 | - | 43 | - | 62 | - | 59 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | 1 | - | 2 | - | - | - | 1 | - | 1 | - | 1 | - |
| Manufactures and Misc. | 1 | 68 | 2 | 56 | - | 46 | 1 | 43 | 1 | 62 | 1 | 59 |
| Total | | | | | | | | | | | | |
| 7 Moose Range | | | | | | | | | | | | |
| Products of Agriculture | - | 82 | - | 82 | - | 64 | - | 54 | - | 82 | - | 54 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 5 | - | 4 | - | 1 | - | 3 | - | - | - | 1 | - |
| Total | 5 | 82 | 4 | 82 | 1 | 64 | 3 | 54 | - | 82 | 1 | 54 |
| 8 Usherville | | | | | | | | | | | | |
| Products of Agriculture | - | - | - | - | - | - | - | - | - | 1 | - | - |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | 4 | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 4 | - | - | - | - | - | - | - | - | 1 | - | - |
| 9 Peesane | | | | | | | | | | | | |
| Products of Agriculture | - | 37 | - | 37 | - | 26 | - | 27 | - | 41 | - | 35 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | - | - | - | - | 1 | - | - | - | - | 1 | - | - |
| Total | - | 37 | - | 37 | 1 | 26 | - | 27 | - | 42 | - | 35 |
| 10 Leacross | | | | | | | | | | | | |
| Products of Agriculture | - | 57 | - | 56 | - | 33 | - | 45 | - | 51 | - | 28 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | 1 | - | - | - |
| Manufactures and Misc. | 1 | - | - | - | - | - | 1 | - | - | - | - | - |
| Total | 1 | 57 | - | 56 | - | 33 | 1 | 45 | 1 | 51 | - | 28 |

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

| Delivery Point | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|-------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out |
| 11 Clemenceau | | | | | | | | | | | | |
| Products of Agriculture | - | 39 | - | 53 | - | 32 | - | 28 | - | 58 | - | 54 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | 1 | 12 | - | 14 | - | 2 | - | 6 | - | - | - | - |
| Manufactures and Misc. | 1 | - | - | - | 2 | - | - | - | - | - | - | - |
| Total | 1 | 51 | - | 67 | 2 | 34 | - | 34 | - | 58 | - | 54 |
| 12 Runciman | | | | | | | | | | | | |
| Products of Agriculture | - | 156 | - | 126 | - | 92 | - | 102 | - | 136 | - | 128 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | 1 | - | 1 | - | 1 | - | 1 | - | 2 | - | 2 | - |
| Products of Forests | 3 | - | 7 | 2 | 3 | - | 1 | - | 1 | - | 3 | - |
| Manufactures and Misc. | 4 | 156 | 8 | 128 | 4 | 92 | 2 | 102 | 5 | 136 | 5 | 128 |
| Total | | | | | | | | | | | | |
| 13 Armley | | | | | | | | | | | | |
| Products of Agriculture | - | 89 | - | 61 | - | 64 | - | 25 | - | 80 | - | 69 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | 3 | 1 | 1 | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 3 | 90 | 1 | 61 | - | 64 | - | 25 | - | 80 | - | 69 |
| Total | | | | | | | | | | | | |
| 14 Nut Mountain | | | | | | | | | | | | |
| Products of Agriculture | - | 273 | - | 198 | - | 186 | - | 108 | - | 257 | - | 259 |
| Animals and Products | - | 4 | - | 1 | - | - | - | - | - | - | - | - |
| Products of Mines | 2 | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 5 | - | 2 | 1 | 3 | 2 | 1 | 2 | - | - | 2 | 3 |
| Total | 7 | 277 | 2 | 200 | 3 | 188 | 1 | 110 | - | 257 | 2 | 262 |
| Villages | | | | | | | | | | | | |
| 15 Eldersley | | | | | | | | | | | | |
| Products of Agriculture | - | 229 | - | 136 | - | 116 | - | 119 | - | 208 | - | 261 |
| Animals and Products | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Products of Mines | 2 | - | 1 | - | - | - | - | - | - | - | - | - |
| Products of Forests | 1 | - | 1 | - | 5 | - | 7 | - | - | - | - | - |
| Manufactures and Misc. | 8 | - | 3 | - | 2 | - | 2 | - | 1 | - | 2 | - |
| Total | 11 | 229 | 5 | 136 | 7 | 116 | 9 | 120 | 1 | 208 | 2 | 261 |

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

| Delivery Point | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|-------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out |
| - carloads - | | | | | | | | | | | | |
| 16 Valparaiso | | | | | | | | | | | | |
| Products of Agriculture | - | 307 | - | 183 | - | 234 | - | 178 | - | 338 | - | 326 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | 1 | - | - | - | - | - | - | - |
| Manufactures and Misc. | 8 | - | 5 | - | 2 | - | 7 | - | 3 | - | 2 | - |
| Total | 8 | 307 | 5 | 183 | 3 | 234 | 7 | 178 | 3 | 338 | 2 | 326 |
| 17 McKague | | | | | | | | | | | | |
| Products of Agriculture | - | 47 | - | 50 | - | 43 | - | 55 | - | 78 | - | 51 |
| Animals and Products | - | 1 | - | 2 | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 2 | - | 1 | 1 | 1 | - | 1 | 1 | - | - | - | 2 |
| Total | 2 | 48 | 1 | 53 | 1 | 43 | 1 | 56 | - | 78 | - | 53 |
| 18 Sylvia | | | | | | | | | | | | |
| Products of Agriculture | - | 230 | - | 153 | - | 139 | - | 107 | - | 272 | - | 226 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 6 | - | 5 | 1 | 4 | - | - | 1 | 1 | - | 2 | - |
| Total | 6 | 230 | 5 | 154 | 4 | 139 | - | 108 | 1 | 272 | 2 | 226 |
| 19 Somme | | | | | | | | | | | | |
| Products of Agriculture | - | 224 | - | 205 | - | 174 | - | 141 | - | 252 | - | 266 |
| Animals and Products | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Products of Mines | 7 | - | 3 | - | 3 | - | 2 | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | 1 | - | - | - |
| Manufactures and Misc. | 37 | - | 36 | - | 35 | 1 | 30 | - | 36 | - | 25 | - |
| Total | 44 | 224 | 39 | 205 | 38 | 175 | 32 | 142 | 37 | 252 | 25 | 266 |
| 20 Chelan | | | | | | | | | | | | |
| Products of Agriculture | - | 118 | - | 116 | - | 113 | - | 78 | - | 170 | - | 190 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | - | - | 5 | - | 4 | - | 3 | 1 | 2 | - | - | - |
| Total | - | 118 | 5 | 116 | 4 | 113 | 3 | 79 | 2 | 170 | - | 190 |

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

| Delivery Point | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|-------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out |
| 21 Prairie River | | | | | | | | | | | | |
| Products of Agriculture | - | 183 | - | 178 | - | 116 | - | 147 | - | 243 | - | 266 |
| Animals and Products | - | - | - | 3 | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | 2 | - | 1 | - | - | - | 3 | - | 3 | - | - |
| Manufactures and Misc. | 8 | 1 | 4 | - | 5 | 3 | 3 | - | 5 | - | 5 | - |
| Total | 8 | 186 | 4 | 182 | 5 | 119 | 3 | 150 | 5 | 246 | 5 | 266 |
| 22 Crooked River | | | | | | | | | | | | |
| Products of Agriculture | - | 24 | - | 18 | - | 37 | - | 81 | - | 124 | - | 142 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | 15 | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | - | - | 1 | - | 3 | - | 1 | - | - | - | 4 | - |
| Total | 15 | 24 | 1 | 18 | 3 | 37 | 1 | 81 | - | 124 | 4 | 142 |
| 23 Carragana | | | | | | | | | | | | |
| Products of Agriculture | - | 168 | - | 117 | - | 121 | - | 79 | - | 116 | - | 154 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | 1 | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 62 | - | 18 | - | 7 | - | 5 | 1 | 3 | - | 2 | - |
| Total | 63 | 168 | 18 | 117 | 7 | 121 | 5 | 80 | 3 | 116 | 2 | 154 |
| 24 Mistatim | | | | | | | | | | | | |
| Products of Agriculture | - | 139 | - | 135 | - | 113 | - | 140 | - | 230 | - | 223 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 36 | - | 46 | - | 30 | - | 20 | - | 21 | - | 26 | - |
| Total | 36 | 139 | 46 | 135 | 30 | 113 | 20 | 140 | 21 | 230 | 26 | 223 |
| 25 Weekes | | | | | | | | | | | | |
| Products of Agriculture | - | 224 | - | 160 | - | 167 | - | 126 | - | 233 | - | 238 |
| Animals and Products | - | 46 | - | 15 | - | - | - | - | - | - | - | - |
| Products of Mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 12 | - | 5 | - | 4 | 4 | 1 | 6 | 3 | - | 1 | - |
| Total | 12 | 270 | 5 | 175 | 4 | 171 | 1 | 132 | 3 | 233 | 1 | 238 |

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

| Delivery Point | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|-------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out |
| - carloads - | | | | | | | | | | | | |
| 26 Bjorkdale | | | | | | | | | | | | |
| Products of Agriculture | - | 200 | - | 119 | - | 167 | - | 137 | - | 213 | - | 240 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | 10 | - | 5 | - | 5 | - | 3 | - | 6 | - | 4 | - |
| Products of Forests | - | 2 | - | - | - | - | - | 2 | - | 2 | - | - |
| Manufactures and Misc. | 7 | - | 1 | - | - | - | 1 | 1 | - | - | - | - |
| Total | 17 | 202 | 6 | 119 | 7 | 167 | 4 | 140 | 6 | 215 | 4 | 240 |
| 27 Aylsham | | | | | | | | | | | | |
| Products of Agriculture | - | 315 | - | 271 | - | 283 | - | 288 | - | 433 | - | 345 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | 5 | - | 2 | - | 2 | - | 1 | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 77 | - | 63 | - | 46 | - | 22 | - | 2 | - | 16 | - |
| Total | 82 | 315 | 65 | 271 | 48 | 283 | 23 | 288 | 2 | 433 | 16 | 345 |
| 28 Archerwill | | | | | | | | | | | | |
| Products of Agriculture | 1 | 292 | 1 | 188 | - | 122 | - | 177 | - | 376 | - | 308 |
| Animals and Products | - | 1 | - | 2 | - | 4 | - | 5 | - | 1 | - | 1 |
| Products of Mines | 11 | - | 8 | - | 6 | - | 5 | - | 1 | - | - | - |
| Products of Forests | - | 3 | 9 | - | 2 | - | 4 | 1 | 2 | - | 3 | 6 |
| Manufactures and Misc. | 22 | - | 27 | - | 13 | - | 9 | 1 | 4 | - | 9 | - |
| Total | 34 | 296 | 45 | 190 | 21 | 126 | 18 | 184 | 7 | 377 | 12 | 315 |
| Towns | | | | | | | | | | | | |
| 29 Zenon Park | | | | | | | | | | | | |
| Products of Agriculture | - | 262 | - | 195 | - | 213 | - | 177 | - | 515 | - | 682 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | 6 | - | 3 | - | 1 | - | - | - | - | - | - | - |
| Products of Forests | - | - | - | - | - | - | - | - | - | - | - | - |
| Manufactures and Misc. | 19 | - | 11 | 1 | 10 | 1 | 13 | - | 13 | - | 5 | - |
| Total | 25 | 262 | 14 | 196 | 11 | 214 | 13 | 177 | 13 | 515 | 5 | 682 |
| 30 Arborfield | | | | | | | | | | | | |
| Products of Agriculture | - | 485 | - | 474 | - | 380 | - | 382 | - | 577 | - | 516 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | - |
| Products of Mines | 10 | - | 5 | - | 5 | - | 4 | - | 1 | - | 4 | - |
| Products of Forests | 4 | - | - | - | 2 | - | - | - | 1 | - | 1 | - |
| Manufactures and Misc. | 93 | - | 92 | - | 86 | 2 | 64 | - | 73 | 1 | 42 | 1 |
| Total | 107 | 485 | 98 | 474 | 93 | 382 | 68 | 382 | 75 | 578 | 47 | 517 |

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (concluded)

| Delivery Point | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|---------------------------|------|-----|------|-----|------|-----|------|-----|------|-------|------|-------|
| | In | Out | In | Out | In | Out | In | Out | In | Out | In | Out |
| <i>Greater Towns</i> | | | | | | | | | | | | |
| 31 Porcupine Plain | | | | | | | | | | | | |
| Products of Agriculture | 3 | 248 | 1 | 322 | - | 205 | - | 169 | - | 274 | - | 248 |
| Animals and Products | - | 2 | - | 3 | - | - | - | - | - | - | - | - |
| Products of Mines | 17 | - | 14 | - | 14 | - | 8 | - | 10 | - | 8 | - |
| Products of Forests | 7 | - | 3 | - | 3 | - | 3 | - | 1 | - | 1 | - |
| Manufactures and Misc. | 91 | - | 72 | - | 70 | - | 62 | 2 | 58 | - | 68 | - |
| Total | 118 | 250 | 90 | 325 | 87 | 207 | 73 | 171 | 69 | 274 | 77 | 248 |
| 32 Kelvington | | | | | | | | | | | | |
| Products of Agriculture | 7 | 863 | 3 | 585 | 4 | 596 | 4 | 467 | - | 943 | - | 919 |
| Animals and Products | - | 82 | - | 73 | 1 | 18 | - | 3 | - | - | - | - |
| Products of Mines | 14 | - | 9 | - | 8 | - | 7 | - | 7 | - | 7 | - |
| Products of Forests | 4 | - | 7 | - | 6 | - | 3 | - | 5 | - | 2 | - |
| Manufactures and Misc. | 236 | - | 209 | - | 165 | - | 147 | - | 128 | - | 129 | - |
| Total | 261 | 945 | 228 | 658 | 184 | 614 | 181 | 470 | 140 | 943 | 138 | 919 |
| 33 Carrot River | | | | | | | | | | | | |
| Products of Agriculture | - | 789 | - | 715 | - | 725 | - | 550 | 2 | 905 | 1 | 1,107 |
| Animals and Products | - | - | - | - | - | - | - | - | - | - | - | 1 |
| Products of Mines | 23 | - | 17 | - | 15 | - | 11 | - | 11 | - | 8 | - |
| Products of Forests | 5 | 175 | 4 | 138 | - | 212 | - | 112 | 1 | 289 | 5 | 252 |
| Manufactures and Misc. | 291 | 6 | 245 | 7 | 212 | 7 | 176 | 75 | 108 | 255 | 76 | 232 |
| Total | 319 | 970 | 266 | 860 | 227 | 944 | 207 | 737 | 122 | 1,449 | 90 | 1,592 |
| 34 Tisdale (C.P.) | | | | | | | | | | | | |
| Products of Agriculture | 4 | 144 | 3 | 94 | 1 | 71 | 1 | 65 | 1 | 178 | - | 174 |
| Animals and Products | - | 75 | - | 55 | - | 37 | - | 1 | - | 2 | - | 3 |
| Products of Mines | 3 | - | 2 | - | 7 | - | 8 | - | 6 | - | 7 | - |
| Products of Forests | 22 | - | 5 | - | 2 | - | 1 | - | 4 | - | 1 | - |
| Manufactures and Misc. | 39 | - | 40 | 2 | 19 | - | 18 | 1 | 17 | 1 | 22 | 1 |
| Total | 68 | 219 | 50 | 151 | 29 | 108 | 28 | 67 | 28 | 181 | 30 | 178 |
| 34 Tisdale (C.N.) | | | | | | | | | | | | |
| Products of Agriculture | 30 | 433 | 9 | 301 | 15 | 302 | 11 | 335 | 13 | 457 | 9 | 622 |
| Animals and Products | - | 90 | - | 71 | - | 76 | - | 53 | - | 91 | - | 53 |
| Products of Mines | 37 | - | 7 | - | 14 | - | 11 | - | 7 | - | 6 | - |
| Products of Forests | 11 | - | 17 | - | 12 | - | 16 | - | 13 | - | 14 | - |
| Manufactures and Misc. | 327 | - | 345 | - | 239 | 5 | 217 | 8 | 211 | 3 | 156 | - |
| Total | 405 | 523 | 378 | 372 | 280 | 383 | 255 | 396 | 244 | 551 | 185 | 675 |
| Products of Agriculture - | | | | | | | | | | | | |
| Animals and Products - | | | | | | | | | | | | |
| Products of Mines - | | | | | | | | | | | | |
| Products of Forests - | | | | | | | | | | | | |
| Manufactures and Misc. - | | | | | | | | | | | | |

All grains, seeds, flour, hay and straw, fruits and vegetables, etc.
 All livestock, poultry, meats, fish, dairy products, etc.
 Coal, mineral ores and concentrates, cement, brick, asphalt, etc.
 Logs, lumber, pulpwood, all processed natural wood, plywood, shingles, etc.
 Petroleum products, chemicals, fertilizer, machinery and parts, vehicles, furniture, food and feed products, woodpulp, newsprint, etc.

Source: Canadian Pacific Railways, Department of Research, Montreal, Quebec.
 Canadian National Railways, Freight Sales, Winnipeg, Manitoba.

Railway Freight Density

For purposes of internal management, the railway companies keep detailed records of the tonnage of revenue freight on every mile of track each year. Figure 1.2 shows this information for 1968 on a railway network map of northern Saskatchewan which includes the Tisdale study area.

The data in Figure 1.2 are expressed in thousands of net tons of freight per mile of line and the map indicates where traffic is heavy and where it is light. Some transport authorities measure the profitability of lines by their traffic density or by the traffic they generate. These measurements, however, do not consider the nature of the traffic or the rates charged. Despite the shortcoming of using such methods, the map in Figure 1.2 is coded to show lower density lines where the freight was less than 100,000 net tons per mile of road and higher density lines where the freight was more than 100,000 net tons per mile of road in 1968.

The traffic density in the study area in 1968 ranged from 82,000 net tons on the Chelan subdivision to over 1 million net tons on the Assiniboine subdivision. The Preeceville subdivision was defined as a light density line with a traffic density of 91,000 net tons per mile.

Generally it may be said that three kinds of rail line operations exist; namely: those that are profitable, those that are unprofitable and those that are not clearly profitable or unprofitable. In the United States, the Federal Railroad Administration is attempting to establish "automatic" minimum, quantifiable standards for determining unprofitability and, therefore, abandonment. One such proposed standard is the 34-car rule which essentially states that a rail line is uneconomic if it carries less than 34 carloads of freight per mile of track each year. This rule, like traffic density measurement, does not take into account the nature of the freight carried or the revenue earned.

Based on 1971 carload traffic the Chelan subdivision carried an average of 24 carloads for each of its 60.1 miles of track and the 19.4-mile subdivision of Arborfield carried 69.5 carloads per mile. The Brooksby subdivision of 51.1 miles carried an average of 57.8 carloads per mile in 1971.

Highway Transportation Services

Truck traffic data similar to railway carload traffic showing volume of traffic to and from each community were not available, but most communities are served by one or more trucking companies. The names of for-hire common and contract carriers serving each center are listed in Table 1.12. Excluded from this list are, of course, farm trucks as well as private urban and private intercity truckers.

Only two of the communities "too small to classify" had trucking service. One carrier served the three hamlets of Usherville, Peesane and Clemenceau and the five villages of Eldersley, McKague, Sylvania, Prairie River and Mistatim. The remaining hamlets, villages, towns and greater towns had two or more for-hire carriers serving each community.

TABLE 1.12 TRUCK SERVICES BY COMMUNITY, 1971

| Delivery Point | For-Hire Carriers | | | | | | | | | | Sask. Trans- portation Co. |
|------------------------------|---------------------------------------|----------------------|----------------------------|---------------------|-----------------------|-----------------------|---|--------------------------------------|----------------------|--|----------------------------------|
| | Saskatoon Star Transfer Ltd. | Canadian National | Blaze Transport Ltd. | Tony's Transport | Franklin Transport | Armitage Transport | Hudson Bay Transport Co., Ltd. | Parkland Express Lines Ltd. | Eastern Transport | | |
| Delivery Point | | | | | | | | | | | |
| <i>Too Small to Classify</i> | | | | | | | | | | | |
| 2 Veillardville | | | | | X | | X | | | | |
| 5 New Osgoode | | | | | | | | | | | |
| <i>Hamlets</i> | | | | | | | | | | | |
| 6 Carlea | X | | | | X | | | | | | X |
| 7 Moose Range | X | | X | | X | | | | | | |
| 8 Usherville | | | | | | | X | | | | |
| 9 Peesane | | | | | | | X | | | | |
| 10 Leacross | X | | X | | | | | | | | |
| 11 Clemenceau | | | | | | | X | | | | |
| 12 Runciman | X | | X | | | | | | | | |
| 13 Armley | X | | X | | X | | | X | | | |
| 14 Nut Mountain | | | | X | | | | | | | |
| <i>Villages</i> | | | | | | | | | | | |
| 15 Eldersley | | X | | | | | | | | | |
| 16 Valparaiso | X | X | | | | | | | | | |
| 17 McKague | | | X | | | | | | | | |
| 18 Sylvia | | | X | X | | X | | | | | |
| 19 Somme | | X | | X | | X | | | | | |
| 20 Chelan | | X | | | | | | | | | |
| 21 Prairie River | | | | | | | X | | | | |
| 22 Crooked River | | X | | X | | X | | | | | |
| 23 Carragana | X | X | | X | | X | | | | | |
| 24 Mistatim | | | | | | | X | | | | |
| 25 Weekes | | X | | X | | X | | | | | |
| 26 Bjorkdale | | X | | X | | X | | | | | |
| 27 Aylsham | X | | X | | X | | | | X | | |
| 28 Archerwill | | | X | | | | | | | | |
| <i>Towns</i> | | | | | | | | | | | |
| 29 Zenon Park | X | | | | X | | | | | | |
| 30 Arborfield | X | | | | X | | | | | | |
| <i>Greater Towns</i> | | | | | | | | | | | |
| 31 Porcupine Plain | | X | | X | | X | | | | | X |
| 32 Kelvington | | | | X | | | | X | | | X |
| 33 Carrot River | X | | X | | X | | | | | | X |
| 34 Tisdale | X | X | X | | | X | | | | | X |

Source: Saskatchewan Shippers' Directory, 1971.

PART II

GRAIN PRODUCTION CHARACTERISTICS

Soil Capability for Agriculture¹

The study area encompasses nearly two million acres of farmland in the Saskatchewan Plains Region which is on the Second Prairie Steppe. Two large forest reserves and some scattered blocks of unoccupied land account for another 1.3 million acres or so. The main physiographic areas are the Pasquia Hills, the Porcupine Uplands including Nut Mountain, the Carrot River Lowlands lying west of the Pasquia Hills, and the Upper Red Deer Plain occurring between the Pasquia Hills to the north and the Porcupine Uplands to the south. The flat Red Deer Plain, sloping gently eastward to gravelly beach ridges near the town of Hudson Bay, is drained by the Red Deer River and its many tributaries. The Carrot River Lowlands drained by the Carrot River which receives drainage from the northern slopes of the Pasquia Hills by way of the Presbyterian and Crooked Rivers, flows in a northeasterly direction to join the main Saskatchewan River in Manitoba. Elevation ranges from about 1,000 feet above sea level on the Carrot River Lowlands to 1,500 feet on the Upper Red Deer Plain and to 2,400 feet or more on the Pasquia Hills.

Black and Dark Grey Chernozemic soils, comprising about 70 percent of the agriculturally settled parts of the study area, are among the most productive soils in Saskatchewan. Those rated as Class 1 soils, like those at Aylsham, Arborfield and Kelvington, have no significant cropping limitations. Other soils are reduced to Class 2 because of adverse topography, stoniness or structural limitations. The limitations of Class 3 soils are more severe but many of these can, at least in part, be overcome by good management practices. Most of the Pasquia Hills and Porcupine Uplands areas lie within Provincial Forest Reserves and, consequently, have not been rated for agricultural capability.

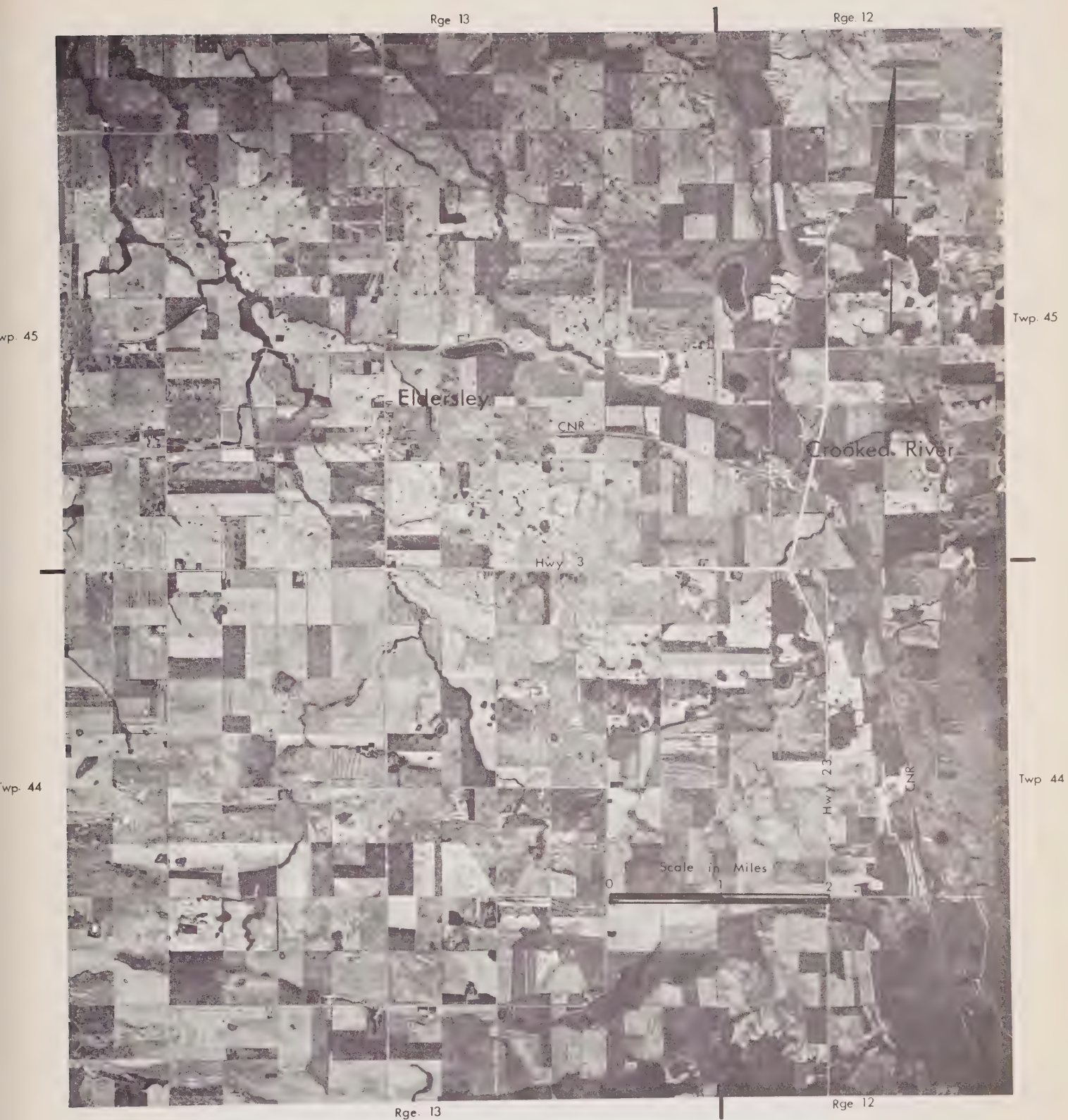
¹For a more detailed description of topography, soil capability and climate in the area see Soil Capability for Agriculture, Canada Land Inventory, Hudson Bay - 63D and Pasquia Hills - 63E, Ottawa, Queen's Printer, 1967. See also J.H. Richards and K.I. Fung, Atlas of Saskatchewan, Saskatoon, University of Saskatchewan, 1969.

Sample Aerial Photos

Figures 2.1 and 2.2 show aerial photos of the Crooked River and Somme-Weekes areas respectively. These photos were taken in the summer of 1970 for use by the Prairie Farm Assistance Administration in their involvement with Operation LIFT. The purpose of including these photos is simply by way of example to show the kind of aerial photos that are available of the entire Prairie region. Landmarks such as communities, railroads and highways have been identified on the figures.

It is interesting to compare these photos to the soil capability maps referred to earlier and to Saskatchewan soil survey maps.¹ The Class 2 soils in the Crooked River area consist mainly of the Tisdale silty clay loam association, and the more complex soils north of Somme and Weekes are a combination of the Etomami-Tisdale clay and the Kakwa clay loam associations. The boundary of the Porcupine Provincial Forest reserve is clearly visible in Figure 2.2. McNab Creek flows north of Somme.

¹ Soil Survey of Southern Saskatchewan, Report No. 12, University of Saskatchewan, Saskatoon, June, 1944.



AERIAL VIEW OF CROOKED RIVER AREA



AERIAL VIEW OF SOMME- WEEKES AREA

Figure 2.2

Temperature Norms and Extremes

Temperature norms and extremes for three weather reporting stations are shown in Table 2.1. Unfortunately all three stations happen to fall just outside the boundaries of the study region: Hudson Bay to the east, Lintlaw to the south and Melfort to the west. It would, however, appear that the data give a good indication of temperatures within the study region.

July mean daily temperatures range from 62.7°F at Lintlaw to 64.7°F at Melfort. January values range from -2.3°F at Melfort to -3.6°F at Hudson Bay. Melfort recorded the highest temperature of 106°F in the month of July; whereas Lintlaw recorded the lowest reading of -54°F in January.

In general the climate is continental with wide variations in day and night temperatures and in seasonal temperatures. There are resultant climatic limitations for the growing of crops in some parts of the region. The Carrot River Lowlands and the southwestern corner of the study area, Kelvington and Archerwill, have no significant limitations.¹ The annual growing season is from 158-168 days of which 80-90 days usually make up the average frost-free period. The shorter growing season in the Pasquia Hills, Porcupine Uplands and Upper Red Deer Plain is estimated at 153-163 days with only 70-90 frost-free days.

Since plant growth is markedly influenced by temperature, the amount of effective heat available to plants is sometimes expressed in terms of "growing degree-days" or "degree-days". Degree-days are most commonly calculated from a base temperature of 42°F which is near the threshold of growth for a number of common crops. One growing degree-day results from each degree that the mean temperature for the day is above 42°F. No degree-days are counted when the mean temperature is equal to or below 42°F. The average number of growing degree-days each year in the Tisdale region is estimated to be 2,250 for the lowlands and 2,000 for areas with higher elevation.

Precipitation

Table 2.2 shows monthly and annual precipitation averages in terms of rainfall, snowfall and total precipitation for the meteorological stations at Hudson Bay, Lintlaw and Melfort. Annual average precipitation ranges from 16.1 inches at Melfort to 17.5 inches at Hudson Bay. From 63 to 65 percent of annual precipitation at the three stations occurs in the five-month period from May to September. June is the highest precipitation month for all stations and 70 percent of the annual precipitation is in the form of rain.

¹Canada Land Inventory, op. cit.

TABLE 2.1 TEMPERATURE NORMS AND EXTREMES FOR SPECIFIED METEOROLOGICAL STATIONS

| Meteorological Station | January | February | March | April | May | June | July | August | September | October | November | December | Year |
|-------------------------------------|------------------------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|------|
| | - degrees Fahrenheit - | | | | | | | | | | | | |
| Hudson Bay | | | | | | | | | | | | | |
| Mean Daily Maximum ^a | 5.5 | 14.4 | 26.4 | 45.7 | 62.1 | 69.5 | 75.9 | 75.9 | 73.1 | 61.2 | 49.2 | 12.9 | 43.6 |
| Mean Daily Minimum ^a | -12.7 | -8.6 | 2.6 | 23.5 | 37.3 | 45.3 | 51.5 | 49.3 | 39.6 | 28.0 | 10.7 | -4.7 | 21.8 |
| Mean Daily Temperature ^a | -3.6 | 2.9 | 14.5 | 34.6 | 49.7 | 57.4 | 63.7 | 61.2 | 50.4 | 38.6 | 18.6 | 4.1 | 32.7 |
| Maximum Temperature ^b | 46 | 49 | 60 | 90 | 94 | 97 | 96 | 95 | 93 | 88 | 68 | 44 | 97 |
| Minimum Temperature ^b | -50 | -47 | -39 | -21 | 11 | 27 | 31 | 29 | 13 | -1 | -38 | -48 | -50 |
| Lintlaw | | | | | | | | | | | | | |
| Mean Daily Maximum ^c | 6.7 | 13.0 | 24.2 | 44.4 | 61.4 | 68.0 | 75.0 | 72.2 | 61.2 | 48.7 | 26.1 | 8.5 | 42.5 |
| Mean Daily Minimum ^c | -12.8 | -8.8 | 2.6 | 23.2 | 36.8 | 44.5 | 50.3 | 47.2 | 38.2 | 27.9 | 10.6 | -4.2 | 21.3 |
| Mean Daily Temperature ^c | -3.1 | 2.1 | 13.4 | 33.8 | 49.1 | 56.3 | 62.7 | 59.7 | 49.7 | 38.3 | 18.4 | 2.2 | 31.9 |
| Maximum Temperature ^d | 43 | 56 | 59 | 88 | 92 | 97 | 103 | 100 | 96 | 88 | 65 | 49 | 103 |
| Minimum Temperature ^d | -54 | -48 | -47 | -27 | 9 | 24 | 25 | 25 | 7 | -8 | -32 | -49 | -54 |
| Melfort | | | | | | | | | | | | | |
| Mean Daily Maximum ^e | 7.4 | 13.4 | 25.7 | 46.0 | 63.9 | 70.7 | 77.8 | 74.7 | 63.5 | 49.7 | 27.4 | 14.4 | 44.6 |
| Mean Daily Minimum ^e | -12.0 | -7.1 | 4.4 | 24.6 | 37.9 | 45.9 | 51.6 | 48.4 | 38.8 | 28.1 | 11.1 | -3.9 | 22.3 |
| Mean Daily Temperature ^e | -2.3 | 3.2 | 15.1 | 35.3 | 50.9 | 58.3 | 64.7 | 61.6 | 51.2 | 38.9 | 19.3 | 5.3 | 33.5 |
| Maximum Temperature ^f | 58 | 51 | 68 | 90 | 95 | 100 | 106 | 101 | 99 | 90 | 78 | 50 | 106 |
| Minimum Temperature ^f | -52 | -50 | -35 | -31 | 13 | 23 | 20 | 22 | 11 | -12 | -29 | -48 | -52 |

^aThe data for these normals were from the full ten-year period 1951-1960 adjusted to the standard normal period 1931-1960.

^bExtremes are for 20 to 29 years.

^cNormals were computed directly from a period of record of 25 to 30 years within the period 1931-1960. In most cases the record existed over the full 30 years.

^dExtremes are for 30 to 39 years.

^eSame as Footnote a but less confidence was placed in the data.

^fExtremes are for 60 to 69 years.

Source: Temperature and Precipitation Tables for Prairie Provinces, Vol. III, Canada Dept. of Transport, Meteorological Branch, Toronto, Ontario, 1967.

TABLE 2.2 MONTHLY AND ANNUAL AVERAGE PRECIPITATION FOR SPECIFIED METEOROLOGICAL STATIONS

| Meteorological Station | January | February | March | April | May | June | July | August | September | October | November | December | Year |
|---------------------------------------|------------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| | - inches - | | | | | | | | | | | | |
| Hudson Bay | | | | | | | | | | | | | |
| Mean Rainfall ^a | 0.0 | 0.0 | 0.02 | 0.39 | 1.39 | 2.85 | 2.83 | 2.27 | 1.61 | 0.54 | 0.10 | 0.00 | 12.00 |
| Mean Snowfall ^a | 8.2 | 6.0 | 9.6 | 6.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.9 | 3.1 | 11.7 | 7.7 | 55.3 |
| Mean Total Precipitation ^a | 0.82 | 0.60 | 0.98 | 1.07 | 1.52 | 2.85 | 2.83 | 2.27 | 1.70 | 0.85 | 1.27 | 0.77 | 17.53 |
| Lintlaw | | | | | | | | | | | | | |
| Mean Rainfall ^b | 0.01 | 0.00 | 0.05 | 0.55 | 1.52 | 3.12 | 2.34 | 2.08 | 1.61 | 0.58 | 0.08 | 0.04 | 11.98 |
| Mean Snowfall ^b | 6.7 | 5.6 | 7.5 | 5.5 | 1.0 | 0.3 | 0.0 | 0.0 | 0.7 | 3.9 | 8.8 | 7.2 | 47.2 |
| Mean Total Precipitation ^b | 0.68 | 0.56 | 0.80 | 1.10 | 1.62 | 3.15 | 2.34 | 2.08 | 1.68 | 0.97 | 0.96 | 0.76 | 16.70 |
| Melfort | | | | | | | | | | | | | |
| Mean Rainfall ^b | 0.01 | 0.01 | 0.01 | 0.55 | 1.36 | 2.75 | 2.41 | 1.88 | 1.60 | 0.64 | 0.14 | 0.01 | 11.37 |
| Mean Snowfall ^b | 7.7 | 6.3 | 8.7 | 3.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.4 | 3.7 | 9.2 | 6.7 | 47.2 |
| Mean Total Precipitation ^b | 0.78 | 0.64 | 0.88 | 0.92 | 1.44 | 2.75 | 2.41 | 1.88 | 1.64 | 1.01 | 1.06 | 0.68 | 16.09 |

^aThese averages are based on a period of record of 10 to 24 years during the period 1931-1960. No adjustment factor has been used.

^bNormals were computed directly from a period of record 25 to 30 years within the period 1931-1960. In most cases the record existed over the full 30 years.

Source: Temperature and Precipitation Tables for Prairie Provinces, Vol. III, Canada Dept. of Transport, Meteorological Branch, Toronto, Ontario, 1967.

Hail Insurance

Table 2.3 contains information obtained from the Saskatchewan Municipal Hail Association in regard to the annual number of claims filed, acres insured and acres on which damage was claimed by municipalities in the Tisdale region. Over the ten-year period from 1962 to 1971, an average of 127,132.4 acres were insured each year. Claims for crop damage on insured acres ranged from 1.5 percent in the municipality of Star City to 20.3 percent in the municipality of Sasman. For the study area in the same period, claims for crop damage averaged 11,069.4 acres or 8.7 percent of insured acres; also the percent of insured acres on which damage was claimed each year ranged from a low of 3.0 percent to a high of 21.8 percent. The municipalities of Clayton, Porcupine and Star City had less than one claim per year on the average.

TABLE 2.3 SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED, ACRES INSURED AND ACRES ON WHICH DAMAGE CLAIMED IN THE STUDY AREA, 1962 TO 1971

| Rural Municipality | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | Avg./Yr. |
|-------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| 336. Sasman | | | | | | | | | | | |
| Number of Claims Filed | 3 | 8 | 5 | 7 | 52 | 2 | 30 | 64 | 5 | 7 | 18.3 |
| Acres Insured | 5,505 | 12,311 | 12,966 | 12,603 | 15,133 | 21,943 | 19,693 | 21,328 | 19,238 | 27,650 | 16,837.0 |
| Acres on Which Damage Claimed | 510 | 349 | 1,474 | 1,248 | 11,158 | 190 | 4,951 | 12,347 | 677 | 1,328 | 3,423.2 |
| Percent | 9.3 | 2.8 | 11.4 | 9.9 | 73.7 | 0.9 | 25.1 | 57.9 | 3.5 | 4.8 | 20.3 |
| 333. Clayton | | | | | | | | | | | |
| Number of Claims Filed | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0.4 |
| Acres Insured | 0 | 583 | 80 | 175 | 576 | 630 | 1,271 | 1,080 | 1,705 | 2,784 | 888.4 |
| Acres on Which Damage Claimed | 0 | 0 | 0 | 0 | 110 | 82 | 0 | 0 | 175 | 315 | 68.2 |
| Percent | 0 | 0 | 0 | 0 | 19.1 | 13.0 | 0 | 0 | 10.3 | 11.3 | 7.7 |
| 334. Preeceville | | | | | | | | | | | |
| Number of Claims Filed | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 3 | 1.0 |
| Acres Insured | 0 | 0 | 0 | 0 | 2,051 | 3,355 | 3,918 | 4,516 | 4,265 | 5,589 | 2,369.4 |
| Acres on Which Damage Claimed | 0 | 0 | 0 | 0 | 889 | 0 | 519 | 0 | 0 | 280 | 168.8 |
| Percent | 0 | 0 | 0 | 0 | 43.3 | 0 | 13.2 | 0 | 0 | 5.0 | 7.1 |
| 335. Hazel Dell | | | | | | | | | | | |
| Number of Claims Filed | 2 | 6 | 1 | 2 | 16 | 2 | 0 | 6 | 7 | 4 | 4.6 |
| Acres Insured | 955 | 3,095 | 3,388 | 2,974 | 3,164 | 6,566 | 7,370 | 7,542 | 5,868 | 6,270 | 4,719.2 |
| Acres on Which Damage Claimed | 280 | 380 | 60 | 270 | 1,899 | 115 | 0 | 762 | 769 | 432 | 496.7 |
| Percent | 29.3 | 12.3 | 1.8 | 9.1 | 60.0 | 1.8 | 0 | 10.1 | 13.1 | 6.9 | 10.5 |
| 336. Kelvington | | | | | | | | | | | |
| Number of Claims Filed | 6 | 9 | 18 | 2 | 5 | 15 | 4 | 11 | 19 | 1 | 9.0 |
| Acres Insured | 5,492 | 9,037 | 19,197 | 17,766 | 19,980 | 26,097 | 29,177 | 27,418 | 25,445 | 34,726 | 21,433.5 |
| Acres on Which Damage Claimed | 755 | 830 | 2,821 | 180 | 332 | 3,174 | 617 | 1,328 | 1,569 | 25 | 1,163.1 |
| Percent | 13.7 | 9.2 | 14.7 | 1.0 | 1.7 | 12.2 | 2.1 | 4.8 | 6.2 | 0.1 | 5.4 |
| 337. Ponass Lake | | | | | | | | | | | |
| Number of Claims Filed | 0 | 11 | 7 | 0 | 12 | 2 | 2 | 18 | 2 | 4 | 5.8 |
| Acres Insured | 985 | 7,235 | 9,095 | 7,638 | 7,825 | 8,937 | 7,448 | 6,306 | 6,193 | 9,098 | 7,076.0 |
| Acres on Which Damage Claimed | 0 | 1,996 | 688 | 0 | 1,699 | 120 | 350 | 2,372 | 168 | 480 | 787.3 |
| Percent | 0 | 27.6 | 7.6 | 0 | 21.7 | 1.3 | 4.7 | 37.6 | 2.7 | 5.3 | 11.1 |

(continued)

TABLE 2.3 SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED, ACRES INSURED AND ACRES ON WHICH DAMAGE CLAIMED IN THE STUDY AREA, 1962 TO 1971 (continued)

| Rural Municipality | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | Avg./Yr. |
|-------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| 395. Porcupine | | | | | | | | | | | |
| Number of Claims Filed | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0.9 |
| Acres Insured | 1,806 | 1,046 | 1,751 | 1,899 | 2,437 | 2,563 | 2,605 | 3,177 | 2,609 | 3,896 | 2,378.9 |
| Acres on Which Damage Claimed | 0 | 188 | 0 | 0 | 0 | 608 | 0 | 0 | 0 | 688 | 148.4 |
| Percent | 0 | 18.0 | 0 | 0 | 0 | 23.7 | 0 | 0 | 0 | 17.7 | 6.2 |
| 397. Barrier Valley | | | | | | | | | | | |
| Number of Claims Filed | 2 | 12 | 6 | 4 | 39 | 0 | 1 | 7 | 0 | 0 | 7.1 |
| Acres Insured | 3,112 | 6,936 | 8,281 | 8,266 | 9,939 | 12,762 | 14,793 | 13,411 | 12,222 | 14,545 | 10,426.7 |
| Acres on Which Damage Claimed | 162 | 1,021 | 569 | 370 | 4,638 | 0 | 186 | 910 | 0 | 0 | 785.6 |
| Percent | 5.2 | 14.7 | 6.9 | 4.5 | 46.7 | 0 | 1.3 | 6.8 | 0 | 0 | 7.5 |
| 426. Bjorkdale | | | | | | | | | | | |
| Number of Claims Filed | 0 | 2 | 0 | 4 | 22 | 1 | 0 | 1 | 6 | 0 | 3.6 |
| Acres Insured | 1,307 | 2,764 | 3,691 | 4,075 | 5,039 | 6,813 | 9,169 | 9,851 | 7,796 | 10,175 | 6,068.0 |
| Acres on Which Damage Claimed | 0 | 61 | 0 | 382 | 3,357 | 140 | 0 | 165 | 887 | 0 | 499.2 |
| Percent | 0 | 2.2 | 0 | 9.4 | 66.6 | 2.1 | 0 | 1.7 | 11.4 | 0 | 8.2 |
| 427. Tisdale | | | | | | | | | | | |
| Number of Claims Filed | 0 | 4 | 2 | 11 | 9 | 0 | 5 | 10 | 5 | 1 | 4.7 |
| Acres Insured | 4,014 | 7,677 | 7,873 | 7,677 | 8,291 | 8,754 | 9,834 | 9,888 | 9,969 | 10,100 | 8,407.7 |
| Acres on Which Damage Claimed | 0 | 685 | 406 | 1,292 | 1,183 | 0 | 832 | 1,358 | 414 | 40 | 621.0 |
| Percent | 0 | 8.9 | 5.2 | 16.8 | 14.3 | 0 | 8.5 | 13.7 | 4.2 | 0.4 | 7.4 |
| 428. Star City | | | | | | | | | | | |
| Number of Claims Filed | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 2 | 2 | 0.9 |
| Acres Insured | 4,227 | 8,404 | 8,485 | 8,195 | 8,141 | 8,488 | 9,096 | 8,671 | 7,602 | 9,980 | 8,128.9 |
| Acres on Which Damage Claimed | 0 | 0 | 0 | 0 | 434 | 0 | 0 | 300 | 125 | 325 | 118.4 |
| Percent | 0 | 0 | 0 | 0 | 5.3 | 0 | 0 | 3.5 | 1.6 | 3.3 | 1.5 |
| 456. Arborfield | | | | | | | | | | | |
| Number of Claims Filed | 3 | 4 | 1 | 6 | 0 | 2 | 9 | 0 | 16 | 0 | 4.1 |
| Acres Insured | 8,454 | 12,476 | 14,164 | 11,406 | 17,587 | 17,058 | 17,267 | 14,715 | 14,406 | 17,842 | 14,537.5 |
| Acres on Which Damage Claimed | 156 | 670 | 471 | 1,140 | 0 | 170 | 1,218 | 0 | 2,449 | 0 | 627.4 |
| Percent | 1.8 | 5.4 | 3.3 | 10.0 | 0 | 1.0 | 7.1 | 0 | 17.0 | 0 | 4.3 |

(continued)

TABLE 2.3 SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED, ACRES INSURED AND ACRES ON WHICH DAMAGE CLAIMED IN THE STUDY AREA, 1962 TO 1971 (concluded)

| Rural Municipality | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | Avg./Yr. |
|-------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| 457. Connaught | | | | | | | | | | | |
| Number of Claims Filed | 0 | 0 | 4 | 8 | 4 | 0 | 1 | 8 | 3 | 9 | 3.7 |
| Acres Insured | 3,265 | 10,138 | 11,399 | 11,119 | 14,075 | 12,656 | 13,990 | 13,735 | 12,366 | 13,558 | 11,630.1 |
| Acres on Which Damage Claimed | 0 | 0 | 593 | 1,876 | 585 | 0 | 78 | 1,175 | 425 | 1,493 | 622.5 |
| Percent | 0 | 0 | 5.2 | 16.9 | 4.2 | 0 | 0.6 | 8.6 | 3.4 | 11.0 | 5.4 |
| 486. Moose Range | | | | | | | | | | | |
| Number of Claims Filed | 1 | 9 | 3 | 22 | 10 | 0 | 35 | 4 | 2 | 17 | 10.3 |
| Acres Insured | 3,399 | 7,593 | 7,884 | 9,189 | 16,007 | 17,632 | 16,922 | 15,434 | 13,157 | 15,094 | 12,231.1 |
| Acres on Which Damage Claimed | 85 | 1,073 | 809 | 3,356 | 2,166 | 0 | 4,535 | 496 | 310 | 2,566 | 1,539.6 |
| Percent | 2.5 | 14.1 | 10.3 | 36.5 | 13.5 | 0 | 26.8 | 3.2 | 2.4 | 17.0 | 12.6 |
| 944. L.I.D. ^a | | | | | | | | | | | |
| Study Area Total | 17 | 67 | 47 | 66 | 175 | 28 | 91 | 132 | 68 | 53 | 74.4 |
| Number of Claims Filed | 42,521 | 89,295 | 108,254 | 102,982 | 130,245 | 154,254 | 162,553 | 157,072 | 142,841 | 181,307 | 127,132.4 |
| Acres Insured | 1,948 | 7,253 | 7,891 | 10,114 | 28,450 | 4,599 | 13,286 | 21,213 | 7,968 | 7,972 | 11,069.4 |
| Acres on Which Damage Claimed | 4.6 | 8.1 | 7.3 | 9.8 | 21.8 | 3.0 | 8.2 | 13.5 | 5.6 | 4.4 | 8.7 |
| Percent | | | | | | | | | | | |

^aNo data available.

Source: Saskatchewan Municipal Hail Insurance Association, Regina, Saskatchewan.

Sales of Farm Land

An overview of farm land transactions in the study area is provided by the data in Table 2.4. In the nine-year period from 1963 to 1971, 675 transactions were recorded, averaging 223 acres each. These are representative transactions in the sense that family and other types of deals involving concessions or premiums (e.g., farmland adjacent to a town possibly purchased for non-agricultural use) were excluded from the tabulations.

Land values increased and had almost doubled by 1967. That year the average price was \$82.61 per acre and the high price was \$153.13 per acre. Since then prices have dropped. Prices were lowest in 1964, averaging \$39.81 per acre, the high price being \$100.63. Many factors enter into a determination of farmland values. Superficially, at least, the following three factors could be mentioned in an explanation of observed price levels: soil classification, general inflation and the grain marketing situation. Class 1 or Class 2 land is usually higher priced than Class 3 or Class 4 land. General economic inflation is in time reflected in rising land values. Finally, as grain marketings keep pace with production, there is an upward pressure on land values. When the supply of grain becomes too large relative to demand, however, the pressure on land values is downward. This is what happened after the 1968-69 crop year.

TABLE 2.4 REPRESENTATIVE LAND VALUES BY SALES PRICE PER ACRE, 1963 TO 1971

| Year | Number of Transactions | Total Acreage | Price per Acre ^a | | |
|------|------------------------|---------------|-----------------------------|--------|---------|
| | | | Low | High | Average |
| | | | \$ | \$. | \$ |
| 1963 | 79 | 18,234 | 11.45 | 100.00 | 42.42 |
| 1964 | 102 | 24,047 | 9.38 | 100.63 | 39.81 |
| 1965 | 108 | 23,980 | 12.50 | 108.00 | 54.98 |
| 1966 | 111 | 23,670 | 6.25 | 137.03 | 66.16 |
| 1967 | 89 | 18,828 | 20.63 | 153.13 | 82.61 |
| 1968 | 60 | 13,144 | 7.81 | 150.00 | 67.09 |
| 1969 | 41 | 8,333 | 28.13 | 146.88 | 83.03 |
| 1970 | 32 | 7,088 | 10.14 | 121.95 | 66.93 |
| 1971 | 53 | 13,054 | 19.01 | 120.83 | 67.67 |

^aLess improvements.

Source: Farm Credit Corporation, Regina, Saskatchewan.

Land Use

The number of acres associated with each delivery point and land use are shown in detail for three crop years in Tables 2.5, 2.6 and 2.7. Between 1962-63 and 1969-70 farm acreage in the study area increased by 84,516 acres or 4.8 percent. During the same period uncultivated land decreased by 101,488 acres or 23.3 percent. Three delivery points, Clashmoor, Veillardville and Golburn, closed between 1962-63 and 1970-71, giving up a total of 42,698 acres of land to neighboring points.

In general the smaller communities experienced decreases in acreage between 1962-63 and 1969-70 while the larger communities had increases.¹ All delivery points "too small to classify" except Nut Mountain and all hamlets decreased their acreages. Five villages, Eldersley, Valparaiso, McKague, Sylvania and Carragana, also had fewer farmland acres associated with them. The rest of the delivery points gained acreages.

Relatively little change occurred in the land use pattern between 1962-63 and 1969-70 in the study area. Cropping practices followed a rotation of about 30 percent summer fallow, 20 percent wheat, 12-14 percent oats and barley, and the remaining 36-38 percent in other crops as well as uncultivated land. Rapeseed increased from 1.8 percent to 7.4 percent of total acres.

Substantial changes occurred in the land use pattern in 1970-71. These changes primarily resulted from the Operation LIFT program of the federal government which was designed to reduce Canada's wheat surplus.² The greatest absolute changes from 1969-70 to 1970-71 occurred in hard spring wheat which dropped by 260,216 acres or 68.9 percent and in rapeseed which increased by 154,749 acres or 112.6 percent. Summer fallow increased by 11.7 percent.

It should be noted that "specified acres" as such disappeared in the 1970-71 crop year under Operation LIFT. For comparative purposes, however, a subtotal in Table 2.7 shows the same crops that comprised specified acres in 1969-70. In the study area this acreage decreased by 13.6 percent.

¹The interested reader may wish to compare this data with that contained in Tables 3.2 and 3.15 which show changes in number of delivery permits issued and average farm to elevator hauling distance.

²LIFT is an acronym derived from "Lower Inventory For Tomorrow".

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63

| Delivery Point | Wheat | Oats | Barley | Rye | Summer Fallow | Forage Crops | Specified Acres (Subtotal) | Durum | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|------------------------------|--------------|-------|--------|-----|---------------|--------------|----------------------------|-------|------|----------|-------------|--------------|--------|
| <i>Too Small to Classify</i> | | | | | | | | | | | | | |
| 1 Clashmoor | 4,453 | 628 | 932 | - | 4,826 | 683 | 11,522 | - | 25 | 149 | 65 | 2,668 | 14,429 |
| Acres | 30.9 | 4.3 | 6.5 | - | 33.5 | 4.7 | 79.9 | - | 0.2 | 1.0 | 0.4 | 18.5 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 2 Veillardville | 3,656 | 795 | 678 | - | 4,633 | 1,073 | 10,835 | - | 203 | 552 | 185 | 4,567 | 16,342 |
| Acres | 22.4 | 4.9 | 4.1 | - | 28.3 | 6.6 | 66.3 | - | 1.2 | 3.4 | 1.1 | 28.0 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 3 Golburn | 3,350 | 1,154 | 609 | 3 | 3,125 | 695 | 8,936 | - | 23 | 121 | 153 | 2,694 | 11,927 |
| Acres | 28.1 | 9.7 | 5.1 | 0.0 | 26.2 | 5.8 | 74.9 | - | 0.2 | 1.0 | 1.3 | 22.6 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 4 Lurgan | 6,075 | 1,139 | 1,353 | - | 7,640 | 947 | 17,154 | - | 842 | 213 | - | 1,460 | 19,669 |
| Acres | 30.9 | 5.8 | 6.9 | - | 38.8 | 4.8 | 87.2 | - | 4.3 | 1.1 | - | 7.4 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 5 New Osgoode | 7,917 | 1,603 | 2,110 | - | 8,563 | 1,332 | 21,525 | - | 337 | 652 | 330 | 4,597 | 27,441 |
| Acres | 28.8 | 5.8 | 7.7 | - | 31.2 | 4.9 | 78.4 | - | 1.2 | 2.4 | 1.2 | 16.8 | 100.0 |
| Percent | | | | | | | | | | | | | |
| <i>Hamlets</i> | | | | | | | | | | | | | |
| 6 Carlea | 5,051 | 1,010 | 2,094 | - | 8,119 | 1,259 | 17,533 | 95 | 923 | 803 | 85 | 1,262 | 20,701 |
| Acres | 24.4 | 4.9 | 10.1 | - | 39.2 | 6.1 | 84.7 | 0.4 | 4.5 | 3.9 | 0.4 | 6.1 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 7 Moose Range | 1,770 | 3,115 | 2,666 | 144 | 5,771 | 1,429 | 14,895 | - | 90 | 2,488 | 73 | 1,327 | 18,873 |
| Acres | 9.4 | 16.5 | 14.1 | 0.7 | 30.6 | 7.6 | 78.9 | - | 0.5 | 13.2 | 0.4 | 7.0 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 8 Usherville | Storage only | | | | | | | | | | | | |
| Acres | | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 9 Peesane | 2,772 | 883 | 821 | - | 3,427 | 575 | 8,478 | 41 | 164 | 68 | 321 | 9,334 | 18,406 |
| Acres | 15.1 | 4.8 | 4.5 | - | 18.6 | 3.1 | 46.1 | 0.2 | 0.9 | 0.4 | 1.7 | 50.7 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 10 Leacross | 4,720 | 782 | 1,137 | - | 4,741 | 1,154 | 12,534 | - | 110 | 105 | 45 | 2,016 | 14,810 |
| Acres | 31.9 | 5.3 | 7.7 | - | 32.0 | 7.8 | 84.7 | - | 0.7 | 0.7 | 0.3 | 13.6 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 11 Clemenceau | 5,115 | 1,506 | 1,132 | - | 4,856 | 356 | 12,965 | - | 138 | 194 | 536 | 6,002 | 19,835 |
| Acres | 25.8 | 7.6 | 5.7 | - | 24.5 | 1.8 | 65.4 | - | 0.7 | 0.9 | 2.7 | 30.3 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 12 Runciman | 9,257 | 1,348 | 3,231 | - | 11,184 | 2,246 | 27,266 | 40 | 563 | 613 | 35 | 2,803 | 31,320 |
| Acres | 29.6 | 4.3 | 10.3 | - | 35.7 | 7.2 | 87.1 | 0.1 | 1.8 | 2.0 | 0.1 | 8.9 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 13 Armley | 6,203 | 2,244 | 2,508 | - | 7,049 | 2,900 | 20,904 | - | 347 | 274 | 66 | 2,451 | 24,042 |
| Acres | 25.8 | 9.3 | 10.4 | - | 29.3 | 12.1 | 86.9 | - | 1.5 | 1.1 | 0.3 | 10.2 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 14 Nut Mountain | 7,132 | 4,941 | 4,828 | 182 | 15,942 | 2,416 | 35,441 | - | 40 | 415 | 443 | 16,920 | 53,259 |
| Acres | 13.4 | 9.3 | 9.1 | 0.3 | 29.9 | 4.5 | 66.5 | - | 0.1 | 0.8 | 0.8 | 31.8 | 100.0 |
| Percent | | | | | | | | | | | | | |

(continued)

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63 (continued)

| Delivery Point | Wheat | Oats | Barley | Rye | Summer Fallow | Forage Crops | Specified Acres (Subtotal) | Durum | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|---------------------------|------------------------------|-------|--------|-----|------------------|-----------------|----------------------------------|-------|-------|----------|----------------|-----------------|---------|
| <i>Villages</i> | | | | | | | | | | | | | |
| 15 Eldersley Acres | 13,317 | 2,416 | 3,688 | - | 13,370 | 1,944 | 34,735 | - | 320 | 890 | 314 | 9,376 | 45,635 |
| Percent | 29.2 | 5.3 | 8.0 | - | 29.3 | 4.3 | 76.1 | - | 0.7 | 1.9 | 0.7 | 20.6 | 100.0 |
| 16 Valparaiso Acres | 21,025 | 2,361 | 4,385 | 35 | 22,754 | 2,181 | 52,741 | 160 | 275 | 655 | 53 | 11,414 | 65,298 |
| Percent | 32.2 | 3.6 | 6.7 | 0.1 | 34.9 | 3.3 | 80.8 | 0.2 | 0.4 | 1.0 | 0.1 | 17.5 | 100.0 |
| 17 McKague Acres | 6,518 | 4,214 | 1,158 | 35 | 8,269 | 2,541 | 22,735 | - | 13 | 118 | 773 | 22,483 | 46,122 |
| Percent | 14.1 | 9.1 | 2.5 | 0.1 | 17.9 | 5.5 | 49.2 | - | 0.1 | 0.3 | 1.7 | 48.7 | 100.0 |
| 18 Sylvia Acres | 14,230 | 4,506 | 5,208 | 55 | 15,522 | 2,163 | 41,684 | - | 45 | 419 | 687 | 13,233 | 56,068 |
| Percent | 25.4 | 8.0 | 9.3 | 0.1 | 27.7 | 3.9 | 74.4 | - | 0.1 | 0.7 | 1.2 | 23.6 | 100.0 |
| 19 Somme Acres | 11,169 | 3,298 | 6,396 | - | 13,152 | 2,686 | 36,701 | - | 526 | 569 | 767 | 6,259 | 44,822 |
| Percent | 24.9 | 7.4 | 14.3 | - | 29.3 | 6.0 | 81.9 | - | 1.2 | 1.2 | 1.7 | 14.0 | 100.0 |
| 20 Chelan Acres | 13,678 | 2,662 | 1,867 | 600 | 12,846 | 2,316 | 33,969 | - | 130 | 429 | 522 | 23,623 | 58,673 |
| Percent | 23.3 | 4.5 | 3.2 | 1.0 | 21.9 | 4.0 | 57.9 | - | 0.2 | 0.7 | 0.9 | 40.3 | 100.0 |
| 21 Prairie River Acres | 9,406 | 3,784 | 3,109 | - | 11,110 | 1,018 | 28,427 | 10 | 398 | 605 | 1,186 | 11,758 | 42,384 |
| Percent | 22.2 | 8.9 | 7.4 | - | 26.2 | 2.4 | 67.1 | 0.1 | 0.9 | 1.4 | 2.8 | 27.7 | 100.0 |
| 22 Crooked River Acres | Elevator constructed in 1966 | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 23 Carragana Acres | 11,415 | 3,098 | 3,560 | 120 | 13,038 | 2,101 | 33,332 | - | 1,371 | 556 | 365 | 8,369 | 43,993 |
| Percent | 26.0 | 7.0 | 8.1 | 0.3 | 29.6 | 4.8 | 75.8 | - | 3.1 | 1.3 | 0.8 | 19.0 | 100.0 |
| 24 Mistatim Acres | 9,122 | 4,195 | 5,443 | - | 14,574 | 1,494 | 34,828 | - | 329 | 823 | 841 | 25,059 | 61,880 |
| Percent | 14.7 | 6.8 | 8.8 | - | 23.6 | 2.4 | 56.3 | - | 0.5 | 1.3 | 1.4 | 40.5 | 100.0 |
| 25 Weeks Acres | 9,224 | 3,412 | 4,973 | - | 13,108 | 1,626 | 32,343 | 50 | 858 | 352 | 119 | 10,786 | 44,508 |
| Percent | 20.7 | 7.7 | 11.2 | - | 29.5 | 3.6 | 72.7 | 0.1 | 1.9 | 0.8 | 0.3 | 24.2 | 100.0 |
| 26 Bjorkdale Acres | 15,967 | 4,095 | 2,270 | 396 | 17,391 | 2,999 | 43,118 | - | 180 | 1,054 | 1,346 | 34,065 | 79,763 |
| Percent | 20.0 | 5.1 | 2.9 | 0.5 | 21.8 | 3.8 | 54.1 | - | 0.2 | 1.3 | 1.7 | 42.7 | 100.0 |
| 27 Aylsham Acres | 13,013 | 4,578 | 5,014 | - | 21,456 | 2,663 | 46,724 | - | 4,367 | 5,628 | 201 | 3,356 | 60,276 |
| Percent | 21.6 | 7.6 | 8.3 | - | 35.6 | 4.4 | 77.5 | - | 7.3 | 9.3 | 0.3 | 5.6 | 100.0 |
| 28 Archerwill Acres | 17,921 | 8,635 | 4,490 | 643 | 24,722 | 4,137 | 60,548 | 67 | 142 | 1,111 | 1,831 | 47,712 | 111,411 |
| Percent | 16.1 | 7.8 | 4.0 | 0.6 | 22.2 | 3.7 | 54.4 | 0.1 | 0.1 | 1.0 | 1.6 | 42.8 | 100.0 |

(continued)

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63 (concluded)

| Delivery Point | Wheat | Oats | Barley | Rye | Summer Fallow | Forage Crops | Specified Acres (Subtotal) | Durum | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|----------------------|------------|-----------|-----------|---------|---------------|--------------|----------------------------|-----------|---------|----------|-------------|--------------|------------|
| <i>Towns</i> | | | | | | | | | | | | | |
| 29 Zenon Park | | | | | | | | | | | | | |
| Acres | 18,863 | 2,140 | 4,148 | - | 17,142 | 2,399 | 44,692 | 108 | 743 | 195 | 50 | 4,341 | 50,129 |
| Percent | 37.6 | 4.3 | 8.3 | - | 34.2 | 4.8 | 89.2 | 0.2 | 1.5 | 0.4 | 0.1 | 8.6 | 100.0 |
| 30 Arborfield | | | | | | | | | | | | | |
| Acres | 32,315 | 5,720 | 11,420 | - | 33,357 | 11,996 | 94,808 | 70 | 2,562 | 736 | 395 | 17,979 | 116,550 |
| Percent | 27.8 | 4.9 | 9.8 | - | 28.6 | 10.3 | 81.4 | 0.1 | 2.2 | 0.6 | 0.3 | 15.4 | 100.0 |
| <i>Greater Towns</i> | | | | | | | | | | | | | |
| 31 Porcupine Plain | | | | | | | | | | | | | |
| Acres | 20,240 | 4,818 | 3,114 | 359 | 22,902 | 4,407 | 55,840 | 3 | 1,939 | 1,625 | 579 | 39,952 | 99,938 |
| Percent | 20.3 | 4.8 | 3.1 | 0.4 | 22.9 | 4.4 | 55.9 | 0.0 | 1.9 | 1.6 | 0.6 | 40.0 | 100.0 |
| 32 Kelvington | | | | | | | | | | | | | |
| Acres | 43,895 | 13,744 | 12,343 | 207 | 53,562 | 9,837 | 133,588 | 92 | 277 | 1,241 | 1,504 | 42,764 | 179,466 |
| Percent | 24.5 | 7.7 | 6.9 | 0.1 | 29.8 | 5.5 | 74.5 | 0.1 | 0.1 | 0.7 | 0.8 | 23.8 | 100.0 |
| 33 Carrot River | | | | | | | | | | | | | |
| Acres | 41,984 | 20,690 | 9,613 | 1,790 | 60,418 | 9,569 | 144,064 | 15 | 4,539 | 6,849 | 706 | 34,346 | 190,519 |
| Percent | 22.0 | 10.9 | 5.1 | 0.9 | 31.7 | 5.0 | 75.6 | 0.1 | 2.4 | 3.6 | 0.3 | 18.0 | 100.0 |
| 34 Tisdale | | | | | | | | | | | | | |
| Acres | 30,449 | 4,016 | 7,687 | - | 29,481 | 4,506 | 76,139 | 90 | 1,743 | 1,868 | 224 | 9,960 | 90,024 |
| Percent | 33.8 | 4.5 | 8.5 | - | 32.8 | 5.0 | 84.6 | 0.1 | 1.9 | 2.1 | 0.2 | 11.1 | 100.0 |
| Study Area Total | | | | | | | | | | | | | |
| Acres | 421,222 | 123,530 | 123,985 | 4,569 | 508,050 | 89,648 | 1,271,004 | 841 | 24,562 | 32,370 | 14,800 | 434,936 | 1,778,513 |
| Percent | 23.7 | 6.9 | 7.0 | 0.3 | 28.6 | 5.0 | 71.5 | 0.1 | 1.4 | 1.8 | 0.8 | 24.4 | 100.0 |
| Saskatchewan Total | | | | | | | | | | | | | |
| Acres | 15,454,942 | 3,260,029 | 1,806,685 | 359,911 | 17,922,504 | 1,755,699 | 40,559,770 | 2,706,327 | 346,557 | 151,889 | 257,875 | 12,195,975 | 56,218,393 |
| Percent | 27.5 | 5.8 | 3.2 | 0.6 | 31.9 | 3.1 | 72.1 | 4.8 | 0.6 | 0.3 | 0.5 | 21.7 | 100.0 |

Source: Canadian Wheat Board, Winnipeg.

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70

| Delivery Point | Wheat | Durum | Oats | Barley | Rye | Summer Fallow | Forage Crops | Specified Acres (Subtotal) | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|------------------------------|--------------|-------|-------|--------|-----|---------------|--------------|----------------------------|------|----------|-------------|--------------|--------|
| <i>Too Small to Classify</i> | | | | | | | | | | | | | |
| 1 Clashmoor Acres | Closed | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 2 Veillardville Acres | Closed | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 3 Golburn Acres | 1,567 | - | 398 | 418 | - | 2,316 | 679 | 5,378 | 72 | 735 | 12 | 1,338 | 7,535 |
| Percent | 20.8 | - | 5.3 | 5.5 | - | 30.7 | 9.0 | 71.3 | 1.0 | 9.7 | 0.2 | 17.8 | 100.0 |
| 4 Lurgan Acres | 2,997 | 165 | 497 | 1,311 | - | 6,363 | 1,907 | 13,240 | 781 | 2,379 | - | 1,410 | 17,810 |
| Percent | 16.8 | 0.9 | 2.8 | 7.4 | - | 35.7 | 10.7 | 74.3 | 4.4 | 13.4 | - | 7.9 | 100.0 |
| 5 New Osgoode Acres | 5,650 | - | 786 | 1,965 | - | 9,351 | 1,964 | 19,716 | 564 | 1,975 | 20 | 1,499 | 23,774 |
| Percent | 23.7 | - | 3.3 | 8.3 | - | 39.3 | 8.3 | 82.9 | 2.4 | 8.3 | 0.1 | 6.3 | 100.0 |
| <i>Hamlets</i> | | | | | | | | | | | | | |
| 6 Carlea Acres | 2,312 | - | 356 | 701 | - | 5,406 | 947 | 9,722 | 635 | 2,261 | 28 | 744 | 13,390 |
| Percent | 17.3 | - | 2.6 | 5.2 | - | 40.4 | 7.1 | 72.6 | 4.7 | 16.9 | 0.2 | 5.6 | 100.0 |
| 7 Moose Range Acres | 1,015 | - | 787 | 2,444 | 240 | 4,283 | 574 | 9,343 | 195 | 1,888 | 75 | 317 | 11,818 |
| Percent | 8.6 | - | 6.7 | 20.7 | 2.0 | 36.2 | 4.9 | 79.1 | 1.6 | 16.0 | 0.6 | 2.7 | 100.0 |
| 8 Usherville Acres | Storage only | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 9 Peesane Acres | 3,026 | - | 305 | 1,048 | - | 3,274 | 602 | 8,255 | 120 | 723 | 275 | 4,941 | 14,314 |
| Percent | 21.1 | - | 2.1 | 7.3 | - | 22.9 | 4.2 | 57.6 | 0.9 | 5.1 | 1.9 | 34.5 | 100.0 |
| 10 Leacross Acres | 1,942 | - | 270 | 940 | - | 3,288 | 561 | 7,001 | 229 | 625 | - | 759 | 8,614 |
| Percent | 22.5 | - | 3.1 | 10.9 | - | 38.2 | 6.5 | 81.2 | 2.7 | 7.3 | - | 8.8 | 100.0 |
| 11 Clemenceau Acres | 3,351 | - | 712 | 2,535 | - | 6,387 | 691 | 13,676 | 138 | 750 | 86 | 4,372 | 19,022 |
| Percent | 17.6 | - | 3.7 | 13.3 | - | 33.6 | 3.6 | 71.8 | 0.7 | 4.0 | 0.5 | 23.0 | 100.0 |
| 12 Runciman Acres | 5,090 | - | 605 | 1,233 | - | 8,561 | 1,922 | 17,411 | 315 | 2,464 | - | 1,464 | 21,654 |
| Percent | 23.5 | - | 2.8 | 5.7 | - | 39.5 | 8.9 | 80.4 | 1.4 | 11.4 | - | 6.8 | 100.0 |
| 13 Armley Acres | 2,959 | - | 737 | 1,404 | - | 5,140 | 1,171 | 11,411 | 595 | 1,079 | 3 | 1,066 | 14,154 |
| Percent | 20.9 | - | 5.2 | 9.9 | - | 36.3 | 8.3 | 80.6 | 4.2 | 7.6 | 0.0 | 7.6 | 100.0 |
| 14 Nut Mountain Acres | 10,186 | - | 2,269 | 5,871 | - | 19,451 | 2,391 | 40,168 | 331 | 2,254 | 368 | 12,383 | 55,504 |
| Percent | 18.4 | - | 4.1 | 10.6 | - | 35.0 | 4.3 | 72.4 | 0.6 | 4.0 | 0.7 | 22.3 | 100.0 |

(continued)

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70 (continued)

| Delivery Point | Wheat | Durum | Oats | Barley | Rye | Summer Fallow | Forage Crops | Specified Acres (Subtotal) | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|---------------------------|--------|-------|-------|--------|-----|------------------|-----------------|----------------------------------|-------|----------|----------------|-----------------|---------|
| <i>Villages</i> | | | | | | | | | | | | | |
| 15 Eldersley Acres | 10,984 | - | 974 | 4,026 | - | 16,340 | 2,501 | 34,825 | 1,153 | 4,518 | 130 | 4,724 | 45,350 |
| Percent | 24.2 | - | 2.2 | 8.9 | - | 36.0 | 5.5 | 76.8 | 2.5 | 10.0 | 0.3 | 10.4 | 100.0 |
| 16 Valparaiso Acres | 14,618 | 75 | 985 | 5,286 | 535 | 21,167 | 3,777 | 46,443 | 967 | 6,036 | 153 | 7,599 | 61,198 |
| Percent | 23.9 | 0.1 | 1.6 | 8.6 | 0.9 | 34.6 | 6.2 | 75.9 | 1.6 | 9.9 | 0.2 | 12.4 | 100.0 |
| 17 McKague Acres | 4,397 | 48 | 1,997 | 1,628 | - | 7,337 | 3,084 | 18,491 | 542 | 1,043 | 589 | 13,322 | 33,987 |
| Percent | 12.9 | 0.1 | 5.9 | 4.8 | - | 21.6 | 9.1 | 54.4 | 1.6 | 3.1 | 1.7 | 39.2 | 100.0 |
| 18 Sylvia Acres | 11,135 | - | 2,300 | 5,460 | - | 17,927 | 3,410 | 40,232 | 117 | 2,786 | 275 | 9,105 | 52,515 |
| Percent | 21.2 | - | 4.4 | 10.4 | - | 34.1 | 6.5 | 76.6 | 0.2 | 5.3 | 0.5 | 17.4 | 100.0 |
| 19 Somme Acres | 13,086 | - | 1,594 | 6,173 | - | 17,242 | 2,450 | 40,545 | 894 | 2,682 | 185 | 4,588 | 48,894 |
| Percent | 26.8 | - | 3.2 | 12.6 | - | 35.3 | 5.0 | 82.9 | 1.8 | 5.5 | 0.4 | 9.4 | 100.0 |
| 20 Chelan Acres | 13,589 | 10 | 1,839 | 2,054 | 141 | 16,202 | 3,705 | 37,540 | 238 | 1,284 | 225 | 20,222 | 59,509 |
| Percent | 22.8 | 0.0 | 3.1 | 3.5 | 0.2 | 27.2 | 6.2 | 63.0 | 0.4 | 2.2 | 0.4 | 34.0 | 100.0 |
| 21 Prairie River Acres | 11,453 | - | 2,151 | 8,257 | - | 16,361 | 1,657 | 39,879 | 1,122 | 3,749 | 632 | 8,700 | 54,082 |
| Percent | 21.2 | - | 4.0 | 15.3 | - | 30.2 | 3.1 | 73.8 | 2.1 | 6.9 | 1.1 | 16.1 | 100.0 |
| 22 Crooked River Acres | 7,806 | - | 1,043 | 1,861 | - | 9,902 | 1,618 | 22,230 | 337 | 1,333 | 405 | 8,128 | 32,433 |
| Percent | 24.1 | - | 3.2 | 5.7 | - | 30.5 | 5.0 | 68.5 | 1.0 | 4.1 | 1.3 | 25.1 | 100.0 |
| 23 Carragana Acres | 9,105 | - | 1,736 | 2,556 | - | 11,806 | 2,754 | 27,957 | 998 | 1,559 | 74 | 4,584 | 35,172 |
| Percent | 25.9 | - | 4.9 | 7.3 | - | 33.6 | 7.8 | 79.5 | 2.9 | 4.4 | 0.2 | 13.0 | 100.0 |
| 24 Mistatim Acres | 10,058 | - | 2,552 | 9,061 | 20 | 17,014 | 5,455 | 44,160 | 576 | 4,131 | 1,421 | 19,813 | 70,101 |
| Percent | 14.4 | - | 3.6 | 12.9 | 0.0 | 24.3 | 7.8 | 63.0 | 0.8 | 5.9 | 2.0 | 28.3 | 100.0 |
| 25 Weekes Acres | 9,562 | - | 2,018 | 6,291 | - | 18,139 | 1,373 | 37,383 | 415 | 2,121 | - | 9,614 | 49,533 |
| Percent | 19.3 | - | 4.1 | 12.7 | - | 36.6 | 2.8 | 75.5 | 0.8 | 4.3 | - | 19.4 | 100.0 |
| 26 Bjorkdale Acres | 17,071 | 110 | 3,370 | 3,121 | 359 | 22,554 | 4,830 | 51,415 | 665 | 4,039 | 1,526 | 26,814 | 84,459 |
| Percent | 20.2 | 0.1 | 4.0 | 3.7 | 0.4 | 26.7 | 5.7 | 60.8 | 0.8 | 4.8 | 1.8 | 31.8 | 100.0 |
| 27 Aylsham Acres | 11,883 | - | 1,653 | 7,562 | 360 | 27,658 | 3,141 | 52,257 | 1,370 | 11,900 | 20 | 3,463 | 69,010 |
| Percent | 17.2 | - | 2.4 | 11.0 | 0.5 | 40.1 | 4.5 | 75.7 | 2.0 | 17.3 | 0.0 | 5.0 | 100.0 |
| 28 Archerwill Acres | 15,668 | 137 | 5,226 | 7,350 | 540 | 28,167 | 8,288 | 65,376 | 747 | 5,263 | 1,502 | 39,716 | 112,604 |
| Percent | 13.9 | 0.1 | 4.6 | 6.5 | 0.5 | 25.0 | 7.4 | 58.0 | 0.7 | 4.7 | 1.3 | 35.3 | 100.0 |

(continued)

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70 (concluded)

| Delivery Point | Wheat | Durum | Oats | Barley | Rye | Summer Fallow | Forage Crops | Specified Acres (Subtotal) | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|---------------------------|------------|-----------|-----------|-----------|---------|------------------|-----------------|----------------------------------|---------|----------|----------------|-----------------|------------|
| <i>Towns</i> | | | | | | | | | | | | | |
| 29 Zenon Park | 16,578 | 40 | 1,636 | 5,081 | - | 20,515 | 9,417 | 53,267 | 1,899 | 4,139 | - | 3,922 | 63,227 |
| Acres | 26.2 | 0.1 | 2.6 | 8.0 | - | 32.4 | 14.9 | 84.2 | 3.0 | 6.6 | - | 6.2 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 30 Arborfield | 20,974 | - | 2,994 | 14,298 | - | 38,898 | 12,861 | 90,025 | 4,182 | 10,625 | 595 | 13,469 | 118,896 |
| Acres | 17.7 | - | 2.5 | 12.0 | - | 32.7 | 10.8 | 75.7 | 3.5 | 9.0 | 0.5 | 11.3 | 100.0 |
| Percent | | | | | | | | | | | | | |
| <i>Greater Towns</i> | | | | | | | | | | | | | |
| 31 Porcupine Plain | 21,841 | - | 2,484 | 5,124 | 136 | 30,010 | 7,103 | 66,698 | 1,473 | 6,928 | 1,196 | 26,970 | 103,265 |
| Acres | 21.1 | - | 2.4 | 5.0 | 0.1 | 29.1 | 6.9 | 64.6 | 1.4 | 6.7 | 1.2 | 26.1 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 32 Kelvington | 46,410 | - | 7,836 | 19,426 | 50 | 60,963 | 8,980 | 143,665 | 1,664 | 11,556 | 617 | 34,637 | 192,139 |
| Acres | 24.2 | - | 4.1 | 10.1 | 0.0 | 31.7 | 4.7 | 74.8 | 0.9 | 6.0 | 0.3 | 18.0 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 33 Carrot River | 45,255 | 155 | 9,915 | 23,915 | 4,770 | 85,492 | 15,064 | 184,566 | 6,100 | 19,880 | 2,539 | 31,141 | 244,226 |
| Acres | 18.5 | 0.1 | 4.0 | 9.8 | 2.0 | 35.0 | 6.2 | 75.6 | 2.5 | 8.1 | 1.0 | 12.8 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 34 Tisdale | 26,359 | - | 3,814 | 10,455 | - | 43,777 | 9,615 | 94,020 | 3,190 | 14,775 | 231 | 12,624 | 124,840 |
| Acres | 21.1 | - | 3.0 | 8.4 | - | 35.1 | 7.7 | 75.3 | 2.6 | 11.8 | 0.2 | 10.1 | 100.0 |
| Percent | | | | | | | | | | | | | |
| <i>Study Area Total</i> | | | | | | | | | | | | | |
| Acres | 377,927 | 740 | 65,839 | 168,855 | 7,151 | 601,291 | 124,492 | 1,346,295 | 32,624 | 137,480 | 13,182 | 333,448 | 1,863,029 |
| Percent | 20.3 | 0.0 | 3.5 | 9.1 | 0.4 | 32.3 | 6.7 | 72.3 | 1.7 | 7.4 | 0.7 | 17.9 | 100.0 |
| | | | | | | | | | | | | | |
| <i>Saskatchewan Total</i> | | | | | | | | | | | | | |
| Acres | 15,872,495 | 2,606,821 | 2,398,645 | 2,984,539 | 518,900 | 19,211,660 | 2,108,161 | 45,701,221 | 678,036 | 821,577 | 270,865 | 9,682,344 | 57,154,043 |
| Percent | 27.8 | 4.6 | 4.2 | 5.2 | 0.9 | 33.6 | 3.7 | 80.0 | 1.2 | 1.4 | 0.5 | 16.9 | 100.0 |
| | | | | | | | | | | | | | |

Source: Canadian Wheat Board, Winnipeg.

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71

| Delivery Point | Wheat | Durum | Oats | Barley | Rye | Summer Fallow | Forage Crops | Subtotal | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|------------------------------|--------------|-------|-------|--------|-----|------------------|-----------------|----------|------|----------|----------------|-----------------|--------|
| <i>Too Small to Classify</i> | | | | | | | | | | | | | |
| 1 Clashmoor | Closed | | | | | | | | | | | | |
| Acres | | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 2 Veillardville | Closed | | | | | | | | | | | | |
| Acres | | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 3 Golburn | Closed | | | | | | | | | | | | |
| Acres | | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 4 Lurgan | 858 | - | 703 | 885 | - | 6,258 | 1,916 | 10,620 | 383 | 3,855 | 120 | 1,708 | 16,686 |
| Acres | 5.1 | - | 4.2 | 5.3 | - | 37.5 | 11.5 | 63.6 | 2.3 | 23.1 | 0.7 | 10.3 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 5 New Osgoode | 1,987 | - | 520 | 2,045 | - | 8,919 | 2,231 | 15,702 | 315 | 4,094 | - | 2,378 | 22,489 |
| Acres | 8.8 | - | 2.3 | 9.1 | - | 39.7 | 9.9 | 69.8 | 1.4 | 18.2 | - | 10.6 | 100.0 |
| Percent | | | | | | | | | | | | | |
| <i>Hamlets</i> | | | | | | | | | | | | | |
| 6 Carlea | 275 | - | 255 | 904 | - | 4,482 | 981 | 6,897 | 308 | 3,373 | - | 808 | 11,386 |
| Acres | 2.4 | - | 2.3 | 7.9 | - | 39.4 | 8.6 | 60.6 | 2.7 | 29.6 | - | 7.1 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 7 Moose Range | 390 | - | 372 | 2,028 | 348 | 3,707 | 798 | 7,643 | 12 | 2,103 | 50 | 375 | 10,183 |
| Acres | 3.8 | - | 3.7 | 19.9 | 3.4 | 36.4 | 7.8 | 75.0 | 0.1 | 20.7 | 0.5 | 3.7 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 8 Usherville | Storage only | | | | | | | | | | | | |
| Acres | | | | | | | | | | | | | |
| Percent | | | | | | | | | | | | | |
| 9 Peesane | 1,103 | 50 | 225 | 681 | - | 4,182 | 834 | 7,075 | 75 | 2,048 | 62 | 5,038 | 14,298 |
| Acres | 7.7 | 0.4 | 1.6 | 4.8 | - | 29.2 | 5.8 | 49.5 | 0.5 | 14.3 | 0.4 | 35.3 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 10 Leacross | 615 | - | 199 | 782 | - | 2,426 | 523 | 4,545 | 192 | 1,033 | - | 801 | 6,571 |
| Acres | 9.4 | - | 3.0 | 11.9 | - | 36.9 | 8.0 | 69.2 | 2.9 | 15.7 | - | 12.2 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 11 Clemenceau | 1,230 | 148 | 930 | 1,898 | 140 | 7,597 | 859 | 12,802 | 212 | 1,400 | 159 | 4,411 | 18,984 |
| Acres | 6.5 | 0.8 | 4.9 | 10.0 | 0.7 | 40.0 | 4.5 | 67.4 | 1.1 | 7.4 | 0.9 | 23.2 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 12 Runciman | 1,398 | - | 714 | 1,951 | - | 10,683 | 1,868 | 16,614 | 796 | 4,986 | 143 | 1,889 | 24,428 |
| Acres | 5.7 | - | 2.9 | 8.0 | - | 43.7 | 7.7 | 68.0 | 3.3 | 20.4 | 0.6 | 7.7 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 13 Armley | 904 | - | 656 | 1,732 | - | 6,156 | 1,690 | 11,138 | 235 | 3,148 | - | 1,349 | 15,870 |
| Acres | 5.7 | - | 4.1 | 10.9 | - | 38.8 | 10.7 | 70.2 | 1.5 | 19.8 | - | 8.5 | 100.0 |
| Percent | | | | | | | | | | | | | |
| 14 Nut Mountain | 2,391 | - | 1,431 | 5,393 | 162 | 23,349 | 2,867 | 35,593 | 526 | 7,220 | 75 | 13,535 | 56,949 |
| Acres | 4.2 | - | 2.5 | 9.5 | 0.3 | 41.0 | 5.0 | 62.5 | 0.9 | 12.7 | 0.1 | 23.8 | 100.0 |
| Percent | | | | | | | | | | | | | |

(continued)

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71 (continued)

| Delivery Point | Wheat | Durum | Oats | Barley | Rye | Summer Fallow | Forage Crops | Subtotal | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|---------------------------|-------|-------|-------|--------|-----|------------------|-----------------|----------|-------|----------|----------------|-----------------|---------|
| <i>Villages</i> | | | | | | | | | | | | | |
| 15 Eldersley Acres | 4,003 | - | 1,211 | 4,107 | - | 17,823 | 2,602 | 29,746 | 954 | 9,477 | 231 | 4,947 | 45,355 |
| Percent | 8.8 | - | 2.7 | 9.1 | - | 39.3 | 5.7 | 65.6 | 2.1 | 20.9 | 0.5 | 10.9 | 100.0 |
| 16 Valparaíso Acres | 3,778 | 70 | 807 | 4,820 | 352 | 23,825 | 4,521 | 38,173 | 1,104 | 13,226 | 185 | 8,938 | 61,626 |
| Percent | 6.1 | 0.1 | 1.3 | 7.8 | 0.6 | 38.7 | 7.3 | 61.9 | 1.8 | 21.5 | 0.3 | 14.5 | 100.0 |
| 17 McKague Acres | 1,746 | - | 1,243 | 2,116 | 230 | 7,335 | 3,696 | 16,366 | 198 | 1,624 | 67 | 12,698 | 30,953 |
| Percent | 5.6 | - | 4.0 | 6.8 | 0.8 | 23.7 | 11.9 | 52.8 | 0.7 | 5.3 | 0.2 | 41.0 | 100.0 |
| 18 Sylvania Acres | 4,452 | - | 2,491 | 5,379 | 28 | 19,034 | 3,656 | 35,040 | 794 | 7,086 | 262 | 9,623 | 52,805 |
| Percent | 8.4 | - | 4.7 | 10.2 | 0.1 | 36.1 | 6.9 | 66.4 | 1.5 | 13.4 | 0.5 | 18.2 | 100.0 |
| 19 Somme Acres | 3,953 | - | 1,139 | 5,603 | - | 19,840 | 3,260 | 33,795 | 1,410 | 8,246 | 104 | 5,025 | 48,580 |
| Percent | 8.1 | - | 2.4 | 11.5 | - | 40.8 | 6.7 | 69.5 | 2.9 | 17.0 | 0.2 | 10.4 | 100.0 |
| 20 Chelan Acres | 4,901 | - | 1,554 | 2,628 | 160 | 19,485 | 5,496 | 34,224 | 390 | 5,441 | 183 | 21,354 | 61,592 |
| Percent | 8.0 | - | 2.5 | 4.3 | 0.3 | 31.6 | 8.9 | 55.6 | 0.6 | 8.8 | 0.3 | 34.7 | 100.0 |
| 21 Prairie River Acres | 4,632 | 40 | 1,467 | 6,102 | - | 20,660 | 2,275 | 35,176 | 1,656 | 8,711 | 747 | 11,817 | 58,107 |
| Percent | 8.0 | 0.1 | 2.5 | 10.5 | - | 35.5 | 3.9 | 60.5 | 2.9 | 15.0 | 1.3 | 20.3 | 100.0 |
| 22 Crooked River Acres | 2,309 | - | 921 | 2,027 | 160 | 11,078 | 2,198 | 18,693 | 385 | 4,472 | 25 | 9,785 | 33,360 |
| Percent | 6.9 | - | 2.7 | 6.1 | 0.5 | 33.2 | 6.6 | 56.0 | 1.2 | 13.4 | 0.1 | 29.3 | 100.0 |
| 23 Carragana Acres | 2,926 | - | 1,591 | 2,983 | - | 14,754 | 3,790 | 26,044 | 781 | 4,583 | 85 | 6,229 | 37,722 |
| Percent | 7.8 | - | 4.2 | 7.9 | - | 39.1 | 10.0 | 69.0 | 2.1 | 12.2 | 0.2 | 16.5 | 100.0 |
| 24 Mistatim Acres | 3,053 | - | 1,889 | 6,885 | 20 | 24,428 | 6,974 | 43,249 | 829 | 8,465 | 670 | 21,931 | 75,144 |
| Percent | 4.1 | - | 2.5 | 9.2 | 0.0 | 32.5 | 9.3 | 57.6 | 1.1 | 11.2 | 0.9 | 29.2 | 100.0 |
| 25 Weekes Acres | 2,967 | - | 1,491 | 6,289 | - | 18,843 | 1,747 | 31,337 | 819 | 5,528 | 50 | 9,996 | 47,730 |
| Percent | 6.2 | - | 3.1 | 13.2 | - | 39.5 | 3.7 | 65.7 | 1.7 | 11.6 | 0.1 | 20.9 | 100.0 |
| 26 Bjorkdale Acres | 5,885 | 155 | 2,730 | 4,023 | 694 | 25,705 | 6,969 | 46,161 | 884 | 8,673 | 217 | 27,475 | 83,410 |
| Percent | 7.1 | 0.2 | 3.3 | 4.8 | 0.8 | 30.8 | 8.3 | 55.3 | 1.1 | 10.4 | 0.3 | 32.9 | 100.0 |
| 27 Avisham Acres | 3,222 | - | 1,460 | 7,331 | 349 | 27,143 | 4,115 | 43,620 | 1,101 | 19,071 | 441 | 4,366 | 68,599 |
| Percent | 4.7 | - | 2.1 | 10.7 | 0.5 | 39.6 | 6.0 | 63.6 | 1.6 | 27.8 | 0.6 | 6.4 | 100.0 |
| 28 Archerwill Acres | 5,093 | 89 | 4,573 | 7,767 | 683 | 32,117 | 10,229 | 60,551 | 528 | 9,944 | 469 | 40,923 | 112,415 |
| Percent | 4.5 | 0.1 | 4.1 | 6.9 | 0.6 | 28.6 | 9.1 | 53.9 | 0.5 | 8.8 | 0.4 | 36.4 | 100.0 |

(continued)

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71 (concluded)

| Delivery Point | Wheat | Durum | Oats | Barley | Rye | Summer Fallow | Forage Crops | Subtotal | Flax | Rapeseed | Other Crops | Uncult. Land | Total |
|----------------------|-----------|-----------|-----------|-----------|---------|------------------|-----------------|------------|-----------|-----------|----------------|-----------------|------------|
| <i>Towns</i> | | | | | | | | | | | | | |
| 29 Zenon Park | | | | | | | | | | | | | |
| Acres | 4,173 | - | 812 | 4,557 | - | 23,601 | 11,836 | 44,979 | 1,749 | 10,851 | 158 | 5,066 | 62,803 |
| Percent | 6.6 | - | 1.3 | 7.3 | - | 37.6 | 18.8 | 71.6 | 2.8 | 17.3 | 0.2 | 8.1 | 100.0 |
| 30 Arborfield | | | | | | | | | | | | | |
| Acres | 6,387 | 48 | 2,029 | 12,077 | 113 | 38,965 | 16,794 | 76,413 | 2,784 | 21,649 | 127 | 16,133 | 117,106 |
| Percent | 5.5 | 0.0 | 1.7 | 10.3 | 0.1 | 33.3 | 14.3 | 65.2 | 2.4 | 18.5 | 0.1 | 13.8 | 100.0 |
| <i>Greater Towns</i> | | | | | | | | | | | | | |
| 31 Porcupine Plain | | | | | | | | | | | | | |
| Acres | 6,686 | - | 1,838 | 4,691 | 182 | 33,375 | 7,987 | 54,759 | 933 | 12,348 | 259 | 24,871 | 93,170 |
| Percent | 7.2 | - | 2.0 | 5.0 | 0.2 | 35.8 | 8.6 | 58.8 | 1.0 | 13.2 | 0.3 | 26.7 | 100.0 |
| 32 Kelvington | | | | | | | | | | | | | |
| Acres | 11,290 | 30 | 5,249 | 17,251 | 230 | 74,198 | 12,227 | 120,475 | 2,367 | 28,277 | 365 | 38,278 | 189,762 |
| Percent | 6.0 | 0.0 | 2.8 | 9.1 | 0.1 | 39.1 | 6.4 | 63.5 | 1.2 | 14.9 | 0.2 | 20.2 | 100.0 |
| 33 Carrot River | | | | | | | | | | | | | |
| Acres | 15,717 | 110 | 6,314 | 22,462 | 4,243 | 89,510 | 18,755 | 157,111 | 7,054 | 41,575 | 2,774 | 37,905 | 246,419 |
| Percent | 6.4 | 0.1 | 2.6 | 9.1 | 1.7 | 36.3 | 7.6 | 63.8 | 2.8 | 16.9 | 1.1 | 15.4 | 100.0 |
| 34 Tisdale | | | | | | | | | | | | | |
| Acres | 9,387 | - | 3,305 | 11,696 | 140 | 51,982 | 12,169 | 88,679 | 2,758 | 29,722 | 453 | 16,809 | 138,421 |
| Percent | 6.8 | - | 2.4 | 8.4 | 0.1 | 37.6 | 8.8 | 64.1 | 2.0 | 21.5 | 0.3 | 12.1 | 100.0 |
| Study Area Total | | | | | | | | | | | | | |
| Acres | 117,711 | 740 | 50,119 | 159,093 | 8,234 | 671,460 | 155,863 | 1,163,220 | 32,532 | 292,229 | 8,481 | 366,461 | 1,862,923 |
| Percent | 6.3 | 0.1 | 2.7 | 8.5 | 0.4 | 36.0 | 8.4 | 62.4 | 1.7 | 15.7 | 0.5 | 19.7 | 100.0 |
| Saskatchewan Total | | | | | | | | | | | | | |
| Acres | 6,436,002 | 2,413,010 | 2,180,831 | 3,545,101 | 426,360 | 25,050,593 | 3,000,609 | 43,052,506 | 1,516,244 | 2,163,118 | 193,066 | 10,201,869 | 57,126,803 |
| Percent | 11.3 | 4.2 | 3.8 | 6.2 | 0.7 | 43.9 | 5.3 | 75.4 | 2.6 | 3.8 | 0.3 | 17.9 | 100.0 |

Source: Canadian Wheat Board, Winnipeg.

Crop Yields

Detailed crop yield data for each delivery point are shown in Table 2.8. Where available, the ten-year high, low, range and average yields of spring wheat, durum, oats, barley and flaxseed are given.

The ten-year average yields of spring wheat and durum wheat in the study area were about the same: 25.7 and 25.3 bushels per acre respectively. For the other grains the average bushels per acre during the ten-year period were as follows: oats 45.8, barley 35.1 and flaxseed 12.7. A great variability of yields is apparent from Table 2.8. In the total study area the range between the high and low yields for each grain is equal to or greater than the ten-year average yield value. For example, the range of 30 bushels per acre for spring wheat is more than the ten-year average of 25.7 bushels per acre. The range in flax yields is over twice the ten-year average of that grain.

TABLE 2.8 TEN-YEAR AVERAGE YIELDS OF SPRING WHEAT, DURUM, OATS, BARLEY AND FLAXSEED BY DELIVERY POINT, 1962-71

| Delivery Point | Spring Wheat | | | | Durum | | | | Oats | | | | Barley | | | | Flaxseed | | | |
|------------------------------|--------------|-----|-------|-------------------|-------|-----|-------|-------------------|------|-----|-------|-------------------|--------|-----|-------|-------------------|----------|-----|-------|-------------------|
| | High | Low | Range | Ten-Year Average | High | Low | Range | Ten-Year Average | High | Low | Range | Ten-Year Average | High | Low | Range | Ten-Year Average | High | Low | Range | Ten-Year Average |
| <i>Too Small to Classify</i> | | | | | | | | | | | | | | | | | | | | |
| 1 Clashmoor | 40 | 15 | 25 | 25.0 ^e | - | - | - | - | 65 | 22 | 43 | 43.4 ^e | 60 | 20 | 40 | 35.4 ^e | 18 | 18 | 0 | 18.0 ^a |
| 2 Veillardville | 28 | 20 | 8 | 24.6 ^e | - | - | - | - | 45 | 30 | 15 | 40.0 ^e | 50 | 20 | 30 | 34.6 ^e | 15 | 5 | 10 | 9.2 ^e |
| 3 Golburn | 35 | 20 | 15 | 27.3 ^h | - | - | - | - | 60 | 30 | 30 | 45.6 ^h | 40 | 20 | 20 | 33.8 | 20 | 10 | 10 | 14.3 ^g |
| 4 Lurgan | 40 | 18 | 22 | 27.4 | - | - | - | - | 70 | 35 | 35 | 54.5 | 50 | 25 | 25 | 38.0 | 20 | 10 | 10 | 13.7 |
| 5 New Osgoode | 40 | 20 | 20 | 27.7 | - | - | - | - | 80 | 30 | 50 | 47.0 | 60 | 25 | 35 | 40.5 | 32 | 7 | 25 | 13.6 |
| <i>Hamlets</i> | | | | | | | | | | | | | | | | | | | | |
| 6 Carlea | 40 | 20 | 20 | 31.1 | - | - | - | - | 70 | 30 | 40 | 51.0 | 50 | 25 | 25 | 39.7 | 20 | 10 | 10 | 14.0 ^h |
| 7 Moose Range | 30 | 20 | 10 | 25.6 | - | - | - | - | 60 | 35 | 25 | 45.0 | 50 | 35 | 15 | 42.5 | 20 | 10 | 10 | 13.4 ^h |
| 8 Usherville | Closed | | | | - | - | - | - | | | | | | | | | | | | |
| 9 Peesane | 35 | 15 | 20 | 26.8 | - | - | - | - | 70 | 25 | 45 | 44.5 | 50 | 15 | 35 | 31.5 | 20 | 10 | 10 | 13.4 ^e |
| 10 Leacross | 35 | 16 | 19 | 24.7 | - | - | - | - | 80 | 25 | 55 | 49.0 | 65 | 18 | 47 | 38.0 | 15 | 7 | 8 | 10.7 |
| 11 Clemenceau | 35 | 15 | 20 | 23.5 | 15 | 15 | 0 | 15.0 ^a | 60 | 20 | 40 | 43.5 | 40 | 20 | 20 | 33.0 | 12 | 5 | 7 | 9.0 ^h |
| 12 Runciman | 40 | 20 | 20 | 29.3 ⁱ | 30 | 30 | 0 | 30.0 ^a | 80 | 25 | 55 | 58.9 ⁱ | 50 | 25 | 25 | 36.4 ⁱ | 22 | 8 | 14 | 16.1 ⁱ |
| 13 Armley | 40 | 12 | 28 | 27.0 | - | - | - | - | 70 | 30 | 40 | 48.5 | 50 | 20 | 30 | 33.0 | 15 | 7 | 8 | 11.3 ^g |
| 14 Nut Mountain | 35 | 20 | 15 | 27.5 | 21 | 21 | 0 | 21.0 ^a | 60 | 30 | 30 | 52.1 | 50 | 30 | 20 | 37.7 | 20 | 15 | 5 | 17.8 ^e |
| <i>Villages</i> | | | | | | | | | | | | | | | | | | | | |
| 15 Eldersley | 30 | 15 | 15 | 22.5 | - | - | - | - | 60 | 20 | 40 | 39.5 | 50 | 20 | 30 | 30.5 | 20 | 5 | 15 | 12.2 |
| 16 Valparaíso | 30 | 20 | 10 | 25.5 | 30 | 20 | 10 | 26.7 ^c | 60 | 30 | 30 | 50.0 | 50 | 25 | 25 | 37.5 | 20 | 10 | 10 | 13.9 |
| 17 McKague | 35 | 12 | 23 | 22.0 | 28 | 20 | 8 | 23.5 ^d | 60 | 15 | 45 | 38.5 | 50 | 10 | 40 | 32.8 | 20 | 9 | 11 | 14.6 ^g |
| 18 Sylvia | 30 | 20 | 10 | 23.3 ⁱ | - | - | - | - | 60 | 35 | 25 | 46.1 ⁱ | 40 | 20 | 20 | 30.0 | 15 | 10 | 5 | 12.5 ^b |
| 19 Somme | 40 | 20 | 20 | 31.0 | 30 | 30 | 0 | 30.0 ^a | 80 | 35 | 45 | 53.0 | 55 | 25 | 30 | 40.5 | 20 | 10 | 10 | 15.2 |
| 20 Chelan | 30 | 15 | 15 | 21.1 ⁱ | 20 | 20 | 0 | 20.0 ^a | 45 | 25 | 20 | 30.4 ⁱ | 35 | 15 | 20 | 26.2 ⁱ | 18 | 8 | 10 | 13.2 ^e |
| 21 Prairie River | 30 | 20 | 10 | 25.6 ⁱ | 30 | 25 | 5 | 27.5 ^b | 55 | 20 | 35 | 39.0 | 40 | 15 | 25 | 29.5 | 20 | 10 | 10 | 12.1 ⁱ |
| 22 Crooked River | 30 | 25 | 15 | 26.7 ^f | - | - | - | - | 50 | 30 | 20 | 45.8 ^f | 40 | 32 | 8 | 36.2 | 15 | 12 | 3 | 14.3 ^d |
| 23 Carragana | 35 | 22 | 13 | 30.2 | - | - | - | - | 60 | 40 | 20 | 47.5 | 50 | 20 | 30 | 35.0 | 20 | 8 | 12 | 13.5 |
| 24 Mistatim | 35 | 10 | 25 | 21.1 | 20 | 20 | 0 | 20.0 ^a | 60 | 25 | 35 | 38.5 | 40 | 20 | 20 | 29.5 | 10 | 5 | 5 | 8.8 ⁱ |
| 25 Weekes | 40 | 20 | 20 | 29.3 | 30 | 20 | 10 | 26.7 ^c | 60 | 35 | 25 | 46.0 | 60 | 20 | 40 | 35.8 | 20 | 8 | 12 | 12.8 ^h |
| 26 Bjorkdale | 32 | 15 | 17 | 21.6 | 20 | 15 | 5 | 17.5 ^b | 55 | 35 | 20 | 43.4 | 45 | 27 | 18 | 33.9 | 18 | 10 | 8 | 12.9 ^h |
| 27 Aylsham | 35 | 20 | 15 | 27.6 | - | - | - | - | 70 | 35 | 35 | 48.0 | 40 | 20 | 20 | 34.8 | 20 | 10 | 10 | 16.0 |
| 28 Archerwill | 30 | 18 | 12 | 23.5 | 40 | 15 | 25 | 24.0 ^e | 60 | 30 | 30 | 47.5 | 40 | 25 | 15 | 34.0 | 18 | 10 | 8 | 15.6 ^e |
| <i>Towns</i> | | | | | | | | | | | | | | | | | | | | |
| 29 Zenon Park | 35 | 16 | 19 | 22.8 | 35 | 16 | 19 | 24.0 ^d | 70 | 20 | 50 | 37.0 | 40 | 23 | 17 | 29.3 | 15 | 8 | 7 | 11.8 |
| 30 Arborfield | 35 | 20 | 15 | 24.8 | 40 | 20 | 20 | 30.0 ^d | 70 | 30 | 40 | 54.0 | 50 | 30 | 20 | 39.0 | 20 | 7 | 13 | 12.9 |
| <i>Greater Towns</i> | | | | | | | | | | | | | | | | | | | | |
| 31 Porcupine Plain | 40 | 17 | 23 | 25.3 ^h | - | - | - | - | 70 | 35 | 35 | 47.5 ^h | 40 | 20 | 20 | 32.5 ^h | 20 | 12 | 8 | 13.1 ^h |
| 32 Kelvington | 30 | 20 | 10 | 26.3 | 35 | 35 | 0 | 35.0 ^a | 50 | 30 | 20 | 42.5 | 50 | 25 | 25 | 35.9 | 15 | 10 | 5 | 12.8 |
| 33 Carrot River | 30 | 15 | 15 | 26.0 | 30 | 20 | 10 | 25.0 ^c | 50 | 20 | 30 | 39.5 | 40 | 20 | 20 | 33.0 | 20 | 5 | 15 | 12.2 |
| 34 Tisdale | 35 | 15 | 20 | 24.1 | 35 | 35 | 0 | 35.0 ^a | 90 | 30 | 60 | 49.7 | 60 | 25 | 35 | 36.0 | 20 | 8 | 12 | 12.6 |
| Study Area Total | 40 | 10 | 30 | 25.7 ^j | 40 | 15 | 25 | 25.3 ^j | 90 | 15 | 75 | 45.8 ^j | 65 | 10 | 55 | 35.1 ^j | 32 | 5 | 27 | 12.7 ^j |

^a 1-year average
^b 2-year average
^c 3-year average
^d 4-year average
^e 5-year average
^f 6-year average
^g 7-year average
^h 8-year average
ⁱ 9-year average
^j Calculated as an average of the above averages weighted by the number of years each represents.

Source: Canadian Wheat Board, Winnipeg.

Protein Content of Wheat

Regulations under the new Canada Grain Act incorporate protein content into the grading system. Although there are other quality factors to be considered, protein content is closely watched by millers and bakers.

Table 2.9 shows the protein content for samples of wheat by delivery point over a ten-year period. Totals for the study area and for the province are also given. It can be seen that protein content varies considerably from year to year and from delivery point to delivery point. The average protein levels in Saskatchewan and in the study area were highest in 1964 and lowest in 1966 for the province, while the study area low was recorded in 1970. The lowest percentage recorded in the study area was 9.6 percent at Clemenceau in 1968. This was still above the provincial low of 9.5 in that year. The highest level recorded, 17.2 at Zenon Park in 1964, was below the provincial high of 19.3 percent for the same year.

The majority of the readings are in the 11 to 14 percent range. The fact that the "average" values are frequently based on only one sample points out the need for caution when evaluating these data. The number of samples at each delivery point in any given year ranges from one to nine with the majority being in the neighborhood of three to five samples.

TABLE 2.9 PROTEIN CONTENT OF HARD RED SPRING WHEAT BY DELIVERY POINT, 1962 TO 1971

| Delivery Point | 1962 | | 1963 | | 1964 | | 1965 | | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | |
|-------------------------------|--------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|--------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|
| | Aver- | Range | Aver- | Range | Aver- | Range | Aver- | Range | Aver- | Range | Aver- | Range | Aver- | Range | Aver- | Range | Aver- | Range | Aver- | Range |
| <i>Too Small to Classify</i> | | | | | | | | | | | | | | | | | | | | |
| 1 Clashmoor | n.a. | n.a. | n.a. | n.a. | 14.9 | - | 12.5 | 12.3-13.0 | 12.5 | - | Closed | - | 12.5 | 12.3-13.0 | 13.3 | - | 12.5 | 12.3-13.0 | 13.3 | - |
| 2 Veillardville | n.a. | n.a. | 13.3 | - | n.a. | n.a. | 12.6 | 10.9-12.2 | 14.3 | - | Closed | - | 11.8 | 10.9-12.2 | 13.5 | - | 12.6 | 10.9-12.2 | 13.5 | - |
| 3 Gotburn | 14.3 | - | 14.6 | - | n.a. | n.a. | 13.0 | 12.5-13.7 | 9.5 | - | 13.2 | 12.2-14.3 | 13.4 | 13.2-13.8 | 16.7 | - | 13.8 | - | 12.4 | 10.9-13.8 |
| 4 Lurgan | 13.4 | 12.6-14.2 | 14.4 | 13.3-15.2 | 14.0 | 14.3-15.6 | 11.7 | 10.8-12.2 | 12.0 | 11.1-13.0 | 12.7 | 12.0-13.4 | 12.9 | - | 16.0 | - | 14.5 | - | n.a. | n.a. |
| 5 New Osgoode | 13.7 | 13.0-15.0 | 13.2 | 12.5-13.9 | 15.0 | 14.3-15.6 | 11.7 | 10.8-12.2 | 12.0 | 11.1-13.0 | 12.7 | 12.0-13.4 | 12.9 | - | 16.0 | - | 14.5 | - | n.a. | n.a. |
| <i>Hamlets</i> | | | | | | | | | | | | | | | | | | | | |
| 6 Carlea | 11.8 | 11.3-12.4 | n.a. | n.a. | 15.2 | 14.5-15.8 | 12.0 | 12.0-12.1 | 12.7 | - | 14.2 | - | n.a. | n.a. | 13.4 | 12.8-13.9 | n.a. | n.a. | 13.0 | 11.0-14.4 |
| 7 Moose Range | n.a. | n.a. | 13.8 | 13.6-14.2 | 15.8 | - | 12.9 | 11.8-13.7 | n.a. | n.a. | 13.9 | 13.2-14.7 | 12.8 | 10.8-14.4 | 14.6 | 13.4-16.2 | 13.6 | 13.5-13.7 | 13.6 | - |
| 8 Usherville | Closed | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 Peesane | n.a. | n.a. | 14.4 | 12.8-15.9 | n.a. | n.a. | 12.3 | 11.3-13.0 | 12.2 | 10.1-13.6 | n.a. | n.a. | 11.2 | - | 13.0 | - | 10.7 | - | 13.3 | 12.0-14.2 |
| 10 Leacross | 13.0 | 12.9-13.1 | n.a. | n.a. | 17.3 | - | 12.5 | 13.1-13.4 | 11.4 | 11.0-12.0 | 13.5 | 12.1-15.4 | 10.3 | 9.6-11.0 | 12.6 | - | n.a. | n.a. | 12.1 | - |
| 11 Clenenceau | 12.8 | 12.1-13.4 | 12.6 | 12.0-13.1 | 13.7 | - | 13.2 | 13.0-13.2 | 13.1 | 12.3-13.5 | 14.0 | 13.3-14.4 | 13.3 | 12.4-14.2 | 13.6 | 13.1-14.0 | 11.0 | 11.0-11.1 | 11.8 | 10.4-13.3 |
| 12 Runciman | 13.0 | 12.1-13.9 | 15.0 | - | 15.2 | - | 13.1 | 13.0-13.2 | 13.1 | 12.3-13.5 | 14.0 | 13.3-14.4 | 13.3 | 12.4-14.2 | 13.6 | 13.1-14.0 | 11.0 | 10.8-13.3 | 13.8 | 12.4-15.5 |
| 13 Armley | 13.0 | 13.0-13.1 | n.a. | n.a. | n.a. | n.a. | 12.1 | 11.4-12.8 | 12.1 | 11.0-13.5 | 14.5 | 14.1-14.9 | 12.4 | 10.8-13.9 | 15.3 | 14.9-15.8 | 11.8 | 10.1-13.5 | 11.6 | 11.0-12.1 |
| 14 Nut Mountain | n.a. | n.a. | 14.0 | 11.0-16.1 | 14.2 | - | 13.3 | - | 12.5 | 12.3-12.8 | 13.4 | 12.4-14.3 | 12.0 | 11.9-12.1 | 14.1 | - | 11.3 | - | 11.3 | - |
| <i>Villages</i> | | | | | | | | | | | | | | | | | | | | |
| 15 Eldersley | 13.2 | 11.8-14.9 | 13.1 | 10.7-15.4 | 15.0 | 13.3-16.7 | 12.6 | 11.5-13.8 | 12.0 | 10.5-12.8 | 14.4 | 12.8-15.4 | 12.5 | 11.5-13.9 | 12.6 | 11.5-14.0 | 11.0 | 9.8-12.7 | 13.4 | 12.4-14.4 |
| 16 Valparaiso | 12.7 | 12.0-13.2 | 13.8 | 10.6-15.7 | 15.7 | 14.3-16.4 | 11.9 | 11.3-12.9 | 12.9 | 11.9-13.6 | 13.3 | 13.1-13.5 | 12.5 | 11.6-13.7 | 13.7 | 12.8-15.2 | 12.2 | 11.5-13.3 | 12.1 | 10.7-13.9 |
| 17 McKague | 14.4 | 14.1-14.6 | 12.0 | - | 13.8 | 12.2-14.6 | n.a. | n.a. | 15.4 | - | 13.0 | 11.2-14.8 | 16.4 | - | 12.1 | - | 12.6 | 11.7-13.5 | 11.3 | 10.5-12.1 |
| 18 Sylvia | 13.4 | 11.6-14.9 | 13.1 | 12.4-13.6 | 14.0 | 12.6-15.7 | 12.8 | 11.8-14.6 | 11.7 | 10.7-13.0 | 12.7 | 10.0-14.6 | 11.5 | 10.2-12.5 | 9.9 | - | 11.9 | - | 13.7 | 12.2-15.2 |
| 19 Somme | 13.3 | 12.5-13.9 | 14.0 | 11.8-15.6 | 14.0 | 13.1-15.3 | 13.0 | 10.8-14.6 | 11.6 | 10.7-12.7 | 15.4 | 14.4-16.9 | 11.3 | 10.2-12.9 | 14.1 | 13.8-14.6 | 12.8 | 12.1-13.7 | 12.6 | 12.0-13.5 |
| 20 Chelan | 14.9 | 13.6-16.9 | 14.9 | 14.6-15.2 | 15.2 | 13.8-15.8 | 13.1 | 12.6-13.4 | 10.6 | 10.7-12.7 | 14.1 | 12.8-15.0 | 10.9 | 9.8-11.5 | 12.9 | - | 11.9 | 11.5-12.3 | 11.1 | 9.8-12.3 |
| 21 Prairie River | 13.7 | - | 13.9 | - | 14.2 | 13.4-15.0 | 13.0 | - | 12.2 | 11.5-12.9 | 12.4 | 11.6-16.3 | 12.5 | n.a. | 13.0 | - | 12.2 | 11.7-12.6 | 12.4 | 11.0-13.3 |
| 22 Crooked River | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 11.9 | 10.6-12.5 | 14.3 | 11.6-16.3 | 12.4 | 11.6-16.3 | 12.5 | 11.2-14.5 | 11.5 | 11.1-12.0 | 12.7 | 11.6-14.1 | 12.8 | 11.5-14.2 |
| 23 Carragana | 12.5 | 12.1-13.0 | 14.4 | - | 15.0 | 14.3-16.2 | 12.4 | 11.9-12.9 | 13.3 | 11.6-12.6 | 11.9 | 12.5-14.7 | 12.3 | - | 14.4 | - | 11.0 | - | 13.3 | 12.5-14.3 |
| 24 Mistatim | 10.4 | - | 12.8 | 12.1-14.2 | 12.8 | 11.6-14.0 | 12.1 | 11.6-12.6 | 11.9 | 10.8-13.4 | 11.9 | - | n.a. | n.a. | 12.4 | 11.4-14.4 | 10.5 | - | 12.0 | 11.6-12.4 |
| 25 Weekes | n.a. | 11.6-13.6 | 14.1 | 12.4-14.9 | 15.1 | 14.7-15.8 | 12.9 | 12.2-13.3 | 11.6 | 11.2-12.0 | 14.3 | 13.7-15.0 | 13.1 | 11.0-15.1 | 14.4 | 12.7-16.3 | 12.7 | 11.8-13.2 | 13.3 | 12.4-13.9 |
| 26 Bjorkdale | 12.8 | 10.6-14.4 | n.a. | n.a. | 14.6 | 13.7-15.6 | 12.4 | 12.3-12.6 | 12.1 | 11.2-12.9 | 15.1 | 14.1-15.9 | 12.3 | 11.0-13.5 | 13.4 | 12.7-14.1 | 11.3 | 9.8-12.7 | 13.2 | 12.0-14.9 |
| 27 Avilsham | 13.4 | 11.7-15.1 | 13.2 | 12.2-14.2 | 13.7 | 11.1-15.3 | 11.9 | 11.2-13.2 | 12.4 | 11.6-13.7 | 13.2 | 12.7-14.1 | 11.0 | 10.2-11.9 | 14.2 | 11.8-15.8 | 12.0 | 11.4-12.6 | 12.4 | 10.9-13.7 |
| 28 Archerhill | 12.9 | 11.7-15.0 | 13.8 | 12.4-15.1 | 14.6 | 13.3-16.1 | 13.0 | 11.5-13.8 | 12.8 | 11.0-14.1 | 14.0 | 13.2-14.5 | 11.4 | 10.7-12.1 | 12.9 | 12.2-13.7 | 12.0 | - | 12.2 | 11.2-13.7 |
| <i>Towns</i> | | | | | | | | | | | | | | | | | | | | |
| 29 Zenon Park | 13.7 | 13.2-14.5 | 13.4 | 12.6-14.2 | 15.6 | 13.2-17.2 | 12.0 | 10.0-13.7 | 12.7 | 11.2-14.2 | 13.6 | 12.6-15.7 | 12.0 | 10.2-14.2 | 14.6 | 12.9-16.2 | 11.5 | 11.0-12.0 | 12.8 | 11.0-14.4 |
| 30 Arborfield | 13.4 | 11.9-15.1 | 13.8 | 10.9-16.5 | 15.3 | 13.1-16.3 | 13.7 | 13.2-14.4 | 12.2 | 10.7-13.1 | 15.0 | 14.0-15.7 | 13.2 | 11.7-14.3 | 14.4 | 13.6-15.1 | 11.9 | 11.3-12.8 | 12.8 | 12.0-13.3 |
| <i>Greater Towns</i> | | | | | | | | | | | | | | | | | | | | |
| 31 Porcupine Plain | 13.9 | 13.6-14.2 | 12.7 | 11.3-14.2 | 14.0 | 12.6-15.0 | 12.7 | 11.4-13.5 | 11.8 | 11.1-12.5 | 12.8 | 12.2-13.8 | 12.3 | 11.3-14.2 | 12.4 | 11.6-13.6 | 11.4 | 11.1-11.7 | 12.3 | 11.4-13.5 |
| 32 Kelvington | 14.3 | 13.8-15.1 | 13.7 | 12.6-15.3 | 14.3 | 14.0-14.9 | 13.0 | 12.2-13.8 | 13.2 | 12.7-13.8 | 13.8 | 12.2-15.2 | 13.5 | 12.2-15.2 | 13.6 | 11.3-14.6 | 12.4 | 11.0-13.6 | 13.1 | 11.7-14.1 |
| 33 Carrot River | 13.0 | 10.7-15.7 | 13.7 | 10.6-16.0 | 15.2 | 14.2-16.2 | 12.8 | 11.5-14.1 | 12.7 | 11.0-14.6 | 13.3 | 10.4-15.5 | 11.8 | 10.3-13.7 | 13.2 | 12.3-15.4 | 11.8 | 10.1-13.8 | 13.2 | 10.8-14.5 |
| 34 Tisdale | 13.7 | 13.0-14.3 | 13.7 | 11.5-16.2 | 15.3 | 14.3-16.9 | 12.4 | 11.9-13.2 | 12.1 | 10.7-12.9 | 13.6 | 12.3-14.5 | 11.8 | 10.9-12.5 | 14.5 | 13.5-14.7 | 11.7 | 10.1-14.8 | 12.8 | 11.5-13.5 |
| Total Study Area ^a | 13.3 | 10.6-16.9 | 13.7 | 10.6-16.5 | 14.8 | 11.1-17.2 | 12.6 | 10.0-14.6 | 12.4 | 10.1-14.6 | 13.7 | 10.0-16.9 | 12.4 | 9.6-15.2 | 13.6 | 11.1-16.3 | 12.0 | 9.8-14.8 | 12.6 | 9.8-15.5 |
| Saskatchewan Total | 14.2 | 8.6-18.6 | 14.6 | 8.5-19.2 | 15.3 | 10.4-19.3 | 13.7 | 9.5-18.9 | 13.3 | 9.5-17.7 | 14.1 | 9.0-19.1 | 14.2 | 9.5-19.7 | 14.0 | 9.1-19.3 | 13.4 | 8.8-16.8 | 13.7 | 9.7-19.0 |

- Indicates data are based on only one sample of wheat.

n.a. - Not available.

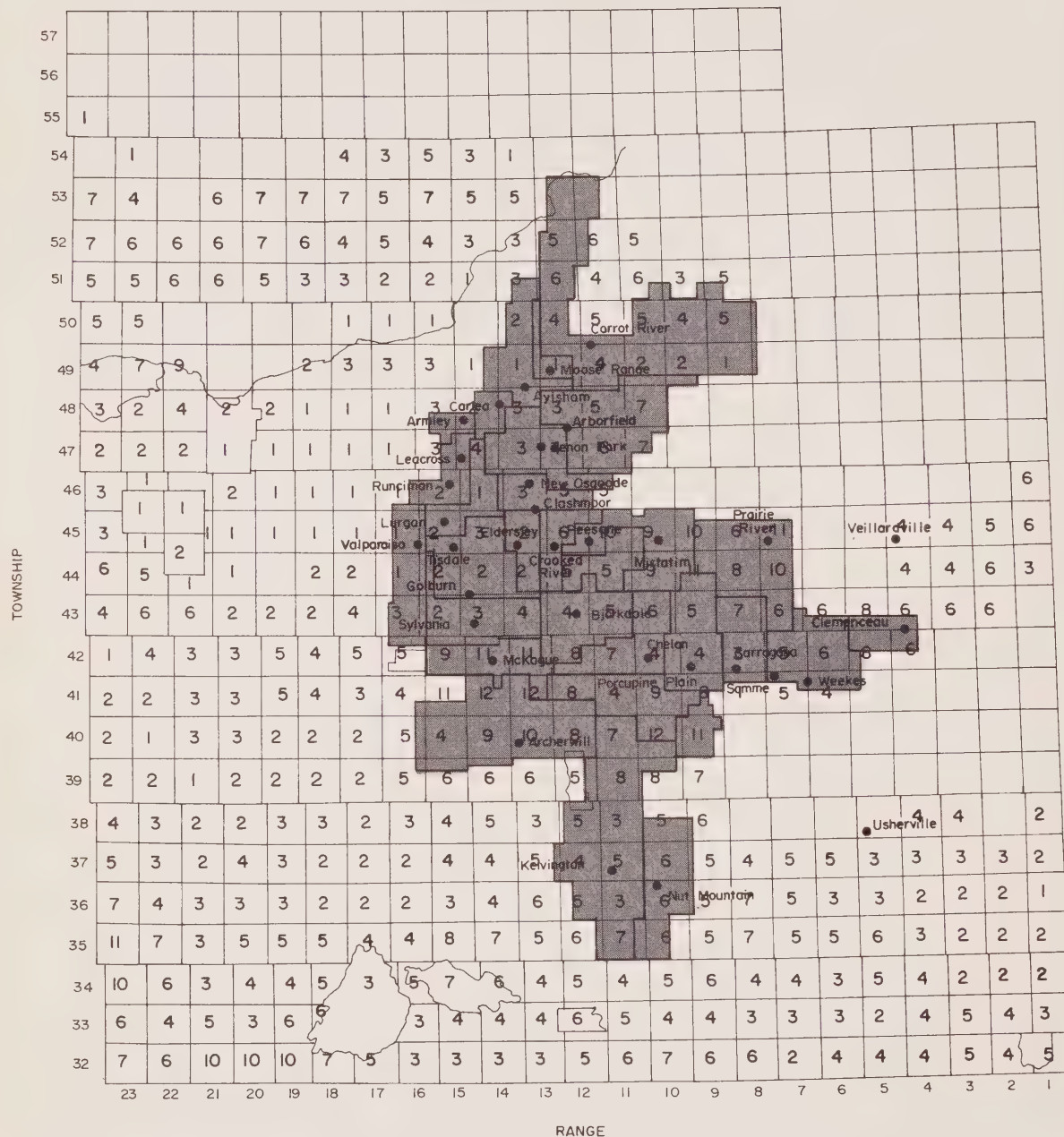
^aAverages weighted by number of samples.

Source: Grain Research Laboratory, Canadian Grain Commission, Winnipeg.

Prairie Farm Assistance Act Payments

The map in Figure 2.3 gives a rough outline of the land tributary to each delivery point in the study area. It shows the number of times during the past 32 years that PFAA payments for crop failure were made to farmers. In explanation of the figures appearing in each township, number 12, for example, does not mean that all farmers received payments in 12 of the 32 years; rather it means that some payments were made in the township in 12 of the 32 years. The map thus indicates the frequency of crop failure in all parts of the region.

PFAA payments were made only once in several townships included in the hinterlands of Carrot River, Moose Range, Aylsham, Lurgan and Valparaiso. The maximum number of payments, 12, were made to farmers in three townships south of McKague and Porcupine Plain. Evidently considerable variation exists both between adjacent townships and throughout the area.



PRAIRIE FARM ASSISTANCE ACT PAYMENTS 1939-1970

Figure 2.3

Farm Size and Land Tenure

The distribution of grain farm sizes in the Tisdale region is shown in Table 2.10. Class sizes are ordered in intervals of 159 acres so that 160 or one of its multiples falls at the midpoint of each class size. More detailed statistics of farm sizes, grouped by delivery point, are given in Table 2.11 for the crop years 1962-63 and 1969-70.

The number of farms in this context is actually the number of grain delivery permits, and farm sizes are derived from the acreages recorded in each permit book. To the extent that individual farm operational units are, in some instances, associated with more than one delivery permit, farm numbers are overstated while farm sizes are understated. With this in mind, the total number of farms declined from 4,253 to 3,514 or 17 percent. In 1962-63 the greatest number of farms, 30.14 percent, fell into the 241-400 acre size group; whereas in 1969-70 the greatest number, 21.46 percent, fell into the 1-240 acre size group. The mode, that size of farm occurring most frequently in the study area, was 320 acres in both years (see footnotes to Table 2.11). In both years Table 2.10 shows that there is a greater concentration of farms at the lower end of the size groups than at the upper end, resulting in a skewed distribution.

The mean farm size for the study area (Table 2.11) increased from 419 acres to 529 acres or about 26 percent. The mean increased at every delivery point except Golburn and Carlea.

The median farm size in the study area increased from 320 to 480 acres. This means that in 1962-63 about half the total number of farms had less than 320 acres and that the rest of the farms had more than 320 acres. Of course, there were some farms with exactly 320 acres. In 1969-70 this half-way point rose to 480 acres. Considering that the median as well as the mean increased, it can be concluded that the number of large farms increased relative to the number of small farms.

The general trend with respect to land tenure has been towards a substantially greater percentage of land being owned rather than being rented by farm operators (Table 2.12). For the total study area the percentage of owned land increased from 67.4 percent in 1962-63 to 78.7 percent in 1969-70. In 1969-70 the percentages of owned land ranged from 38.7 percent at Clemenceau to 89.2 percent at Zenon Park.

TABLE 2.10 DISTRIBUTION OF FARM SIZES IN THE STUDY AREA, CROP YEARS
1962-63 AND 1969-70

| Size Group (acres) | 1962-63 | | 1969-70 | |
|-----------------------|--------------------|---------------------|--------------------|---------------------|
| | Number of farms | Percent of Total | Number of farms | Percent of Total |
| 1 - 240 | 1,183 | 27.82 | 754 | 21.46 |
| 241 - 400 | 1,282 | 30.14 | 741 | 21.09 |
| 401 - 560 | 834 | 19.61 | 701 | 19.95 |
| 561 - 720 | 488 | 11.48 | 552 | 15.71 |
| 721 - 880 | 233 | 5.49 | 317 | 9.02 |
| 881 - 1,040 | 105 | 2.47 | 175 | 4.98 |
| 1,041 - 1,200 | 63 | 1.48 | 110 | 3.13 |
| 1,201 - 1,360 | 29 | 0.68 | 65 | 1.85 |
| 1,361 - 1,520 | 12 | 0.28 | 33 | 0.94 |
| 1,521 - 1,680 | 12 | 0.28 | 25 | 0.71 |
| 1,681 - 1,840 | 4 | 0.09 | 9 | 0.26 |
| 1,841 - 2,000 | 2 | 0.05 | 11 | 0.31 |
| 2,001 - 2,160 | 1 | 0.02 | 5 | 0.14 |
| 2,161 - 2,320 | | | 5 | 0.14 |
| 2,321 - 2,480 | | | 3 | 0.09 |
| 2,481 - 2,640 | 1 | 0.02 | 2 | 0.06 |
| 2,641 - 2,800 | | | 1 | 0.03 |
| 2,801 - and over | 4 | 0.09 | 5 | 0.14 |
| Study Area Total | 4,253 | 100.00 | 3,514 | 100.00 |

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70

| Delivery Point | No. of Farms | Mean Size | Maximum Size | Minimum Size | Median Size | Modal Size Group(s) |
|------------------------------|--------------------|-----------|--------------|--------------|-------------|---------------------|
| <i>Too Small to Classify</i> | | | | | | |
| 1 Clashmoor | | | | | | |
| 1962-63 | 35 | 417 | 1,280 | 20 | 320 | 1-240 |
| 1969-70 | Closed | | | | | |
| 2 Veillardville | | | | | | |
| 1962-63 | 45 | 363 | 1,408 | 148 | 320 | 241-400 |
| 1969-70 | Closed | | | | | |
| 3 Golburn | | | | | | |
| 1962-63 | 34 | 379 | 953 | 157 | 320 | 241-400 |
| 1969-70 | 20 | 376 | 682 | 160 | 320 | 241-400 |
| 4 Lurgan | | | | | | |
| 1962-63 | 37 | 532 | 1,920 | 35 | 480 | 1-240 |
| 1969-70 | 27 | 718 | 1,470 | 159 | 766 | 721-1,040 |
| 5 New Osgoode | | | | | | |
| 1962-63 | 58 | 473 | 1,115 | 160 | 320 | 241-400 |
| 1969-70 | 35 | 638 | 1,440 | 160 | 640 | 401-560, 561-720 |
| <i>Hamlets</i> | | | | | | |
| 6 Carlea | | | | | | |
| 1962-63 | 42 | 493 | 3,031 | 160 | 320 | 241-400 |
| 1969-70 | 26 | 463 | 1,280 | 160 | 414 | 241-400 |
| 7 Moose Range | | | | | | |
| 1962-63 | 53 | 356 | 884 | 50 | 320 | 241-400 |
| 1969-70 | 28 | 394 | 800 | 45 | 320 | 1-240 |
| 8 Usherville | | | | | | |
| 1962-63 | Closed for storage | | | | | |
| 1969-70 | Closed for storage | | | | | |
| 9 Peesane | | | | | | |
| 1962-63 | 57 | 323 | 960 | 10 | 320 | 241-400 |
| 1969-70 | 31 | 456 | 1,440 | 160 | 320 | 241-400 |
| 10 Leacross | | | | | | |
| 1962-63 | 35 | 428 | 1,280 | 40 | 320 | 241-400 |
| 1969-70 | 16 | 477 | 1,280 | 152 | 320 | 1-240 |

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(continued)

| Delivery Point | No. of Farms | Mean Size | Maximum Size | Minimum Size | Median Size | Modal Size Group(s) |
|-----------------|--------------|-----------|--------------|--------------|-------------|---------------------|
| 11 Clemenceau | | | | | | |
| 1962-63 | 44 | 451 | 1,760 | 160 | 480 | 401-560 |
| 1969-70 | 34 | 583 | 2,228 | 30 | 480 | 401-560 |
| 12 Runciman | | | | | | |
| 1962-63 | 68 | 461 | 1,280 | 160 | 320 | 241-400 |
| 1969-70 | 41 | 551 | 960 | 160 | 480 | 241-400, 561-720 |
| 13 Armley | | | | | | |
| 1962-63 | 59 | 407 | 1,358 | 142 | 320 | 241-400 |
| 1969-70 | 27 | 546 | 1,312 | 156 | 480 | 401-560 |
| 14 Nut Mountain | | | | | | |
| 1962-63 | 140 | 379 | 1,440 | 80 | 320 | 1-240 |
| 1969-70 | 114 | 495 | 1,760 | 98 | 480 | 1-240 |
| <i>Villages</i> | | | | | | |
| 15 Eldersley | | | | | | |
| 1962-63 | 111 | 411 | 1,120 | 20 | 320 | 1-240 |
| 1969-70 | 79 | 561 | 1,968 | 20 | 480 | 241-400 |
| 16 Valparaiso | | | | | | |
| 1962-63 | 141 | 464 | 1,410 | 156 | 478 | 241-400 |
| 1969-70 | 115 | 523 | 1,823 | 154 | 480 | 561-720 |
| 17 McKague | | | | | | |
| 1962-63 | 99 | 467 | 2,560 | 158 | 320 | 241-400 |
| 1969-70 | 53 | 640 | 3,360 | 158 | 480 | 1-240 |
| 18 Sylvania | | | | | | |
| 1962-63 | 132 | 425 | 3,520 | 152 | 320 | 241-400 |
| 1969-70 | 110 | 492 | 1,590 | 35 | 480 | 401-560 |
| 19 Somme | | | | | | |
| 1962-63 | 116 | 386 | 965 | 144 | 320 | 1-240 |
| 1969-70 | 98 | 509 | 1,280 | 80 | 400 | 1-240 |
| 20 Chelan | | | | | | |
| 1962-63 | 147 | 400 | 1,279 | 26 | 320 | 1-240 |
| 1969-70 | 123 | 485 | 1,759 | 15 | 320 | 1-240 |

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(continued)

| Delivery Point | No. of Farms | Mean Size | Maximum Size | Minimum Size | Median Size | Modal Size Group(s) |
|------------------|------------------------------|-----------|--------------|--------------|-------------|---------------------|
| 21 Prairie River | | | | | | |
| 1962-63 | 116 | 365 | 1,040 | 109 | 320 | 241-400 |
| 1969-70 | 112 | 473 | 960 | 80 | 480 | 401-560 |
| 22 Crooked River | | | | | | |
| 1962-63 | Elevator constructed in 1966 | | | | | |
| 1969-70 | 63 | 509 | 1,600 | 10 | 416 | 1-240 |
| 23 Carragana | | | | | | |
| 1962-63 | 451 | 423 | 1,600 | 77 | 320 | 241-400 |
| 1969-70 | 82 | 438 | 1,600 | 80 | 400 | 1-240 |
| 24 Mistatim | | | | | | |
| 1962-63 | 144 | 428 | 1,276 | 24 | 441 | 401-560 |
| 1969-70 | 136 | 513 | 1,280 | 150 | 480 | 401-560 |
| 25 Weekes | | | | | | |
| 1962-63 | 130 | 342 | 1,080 | 80 | 320 | 1-240 |
| 1969-70 | 115 | 425 | 1,600 | 18 | 320 | 1-240 |
| 26 Bjorkdale | | | | | | |
| 1962-63 | 167 | 478 | 1,912 | 157 | 480 | 401-560 |
| 1969-70 | 154 | 547 | 1,725 | 155 | 480 | 401-560 |
| 27 Aylsham | | | | | | |
| 1962-63 | 138 | 437 | 1,760 | 80 | 320 | 241-400 |
| 1969-70 | 124 | 557 | 2,200 | 80 | 478 | 1-240 |
| 28 Archerwill | | | | | | |
| 1962-63 | 257 | 435 | 3,000 | 131 | 320 | 1-240 |
| 1969-70 | 202 | 554 | 3,402 | 30 | 480 | 241-400 |
| <i>Towns</i> | | | | | | |
| 29 Zenon Park | | | | | | |
| 1962-63 | 105 | 480 | 3,040 | 100 | 477 | 241-400 |
| 1969-70 | 101 | 640 | 2,383 | 80 | 560 | 241-400, 401-560 |
| 30 Arborfield | | | | | | |
| 1962-63 | 261 | 447 | 1,760 | 40 | 400 | 1-240 |
| 1969-70 | 217 | 549 | 2,240 | 80 | 480 | 401-560 |

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(concluded)

| Delivery Point | No. of Farms | Mean Size | Maximum Size | Minimum Size | Median Size | Modal Size Group(s) |
|----------------------|--------------|------------------|--------------|--------------|-------------|----------------------|
| <i>Greater Towns</i> | | | | | | |
| 31 Porcupine Plain | | | | | | |
| 1962-63 | 272 | 367 | 1,280 | 30 | 320 | 1-240 |
| 1969-70 | 216 | 472 | 1,880 | 20 | 400 | 1-240 |
| 32 Kelvington | | | | | | |
| 1962-63 | 464 | 387 | 1,440 | 8 | 320 | 241-400 |
| 1969-70 | 381 | 505 | 3,123 | 32 | 480 | 1-240 |
| 33 Carrot River | | | | | | |
| 1962-63 | 117 | 376 | 1,600 | 80 | 320 | 1-240 |
| 1969-70 | 445 | 541 | 2,560 | 50 | 480 | 1-240 |
| 34 Tisdale | | | | | | |
| 1962-63 | 178 | 505 | 1,760 | 9 | 361 | 241-400 |
| 1969-70 | 189 | 670 | 3,200 | 7 | 480 | 241-400 |
| Total Study Area | | | | | | |
| 1962-63 | 4,253 | 419 ^a | 3,520 | 8 | 320 | 241-400 ^b |
| 1969-70 | 3,514 | 529 ^a | 3,402 | 7 | 480 | 1-240 ^b |

^aThe standard deviation for the total study area in 1962-63 was 419 acres and in 1969-70 it was 529 acres.

^bThe modal size for the total study area in both crop years was 320 acres.

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

TABLE 2.12 LAND TENURE IN THE STUDY AREA, 1962-63 AND 1969-70

| Delivery Point | Percent Owned | | Percent Rented | |
|-------------------------------|---------------|---------|----------------|---------|
| | 1962-63 | 1969-70 | 1962-63 | 1969-70 |
| <i>Too Small to Classify</i> | | | | |
| 1 Clashmoor | 57.8 | Closed | 42.2 | Closed |
| 2 Veillardville | 68.5 | Closed | 31.5 | Closed |
| 3 Golburn | 80.4 | 76.1 | 19.6 | 23.9 |
| 4 Lurgan | 74.0 | 76.9 | 26.0 | 23.1 |
| 5 New Osgoode | 61.5 | 85.3 | 38.5 | 14.7 |
| <i>Hamlets</i> | | | | |
| 6 Carlea | 75.1 | 85.7 | 24.9 | 14.3 |
| 7 Moose Range | 71.2 | 86.9 | 28.8 | 13.1 |
| 8 Usherville | * | * | * | * |
| 9 Peesane | 54.3 | 64.0 | 45.7 | 36.0 |
| 10 Leacross | 77.4 | 82.3 | 22.6 | 17.7 |
| 11 Clemenceau | 17.7 | 38.7 | 82.3 | 61.3 |
| 12 Runciman | 78.0 | 73.8 | 22.0 | 26.2 |
| 13 Armley | 78.7 | 79.5 | 21.3 | 20.5 |
| 14 Nut Mountain | 73.8 | 81.6 | 26.2 | 18.4 |
| <i>Villages</i> | | | | |
| 15 Eldersley | 65.2 | 75.2 | 34.8 | 24.8 |
| 16 Valparaiso | 70.8 | 75.0 | 29.2 | 25.0 |
| 17 McKague | 63.8 | 59.6 | 36.2 | 40.4 |
| 18 Sylvania | 74.5 | 83.1 | 25.5 | 16.9 |
| 19 Somme | 71.4 | 82.7 | 28.6 | 17.3 |
| 20 Chelan | 57.7 | 78.5 | 42.3 | 21.5 |
| 21 Prairie River | 36.9 | 87.9 | 63.1 | 12.1 |
| 22 Crooked River ^a | - | 71.2 | - | 28.8 |
| 23 Carragana | 66.4 | 80.3 | 33.6 | 19.7 |
| 24 Mistatim | 43.0 | 63.3 | 57.0 | 36.7 |
| 25 Weekes | 71.7 | 72.6 | 28.3 | 27.4 |
| 26 Bjorkdale | 66.8 | 82.7 | 33.2 | 17.3 |
| 27 Aylsham | 75.3 | 75.2 | 24.7 | 24.8 |
| 28 Archerwill | 72.2 | 77.0 | 27.8 | 23.0 |
| <i>Towns</i> | | | | |
| 29 Zenon Park | 71.7 | 89.2 | 28.3 | 10.8 |
| 30 Arborfield | 70.8 | 80.6 | 29.2 | 19.4 |
| <i>Greater Towns</i> | | | | |
| 31 Porcupine Plain | 58.9 | 73.3 | 41.1 | 26.7 |
| 32 Kelvington | 84.8 | 86.6 | 15.2 | 13.4 |
| 33 Carrot River | 58.2 | 81.0 | 41.8 | 19.0 |
| 34 Tisdale | 75.2 | 78.2 | 24.8 | 21.8 |
| Study Area Total | 67.4 | 78.7 | 32.6 | 21.3 |

* Storage only

^aElevator constructed in 1966

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

PART III

GRAIN MARKETING AND HANDLING CHARACTERISTICS

Producers' Choice of Alternate Delivery Points

When the Canadian Wheat Board changed delivery regulations in 1970-71, farmers were given the right to specify a second delivery point for Board grains, i.e., each producer was entitled to haul his grain to either of two delivery points. The information gleaned from these individual selections throws light on some of the factors which farmers consider when weighing the advantages and disadvantages of different elevator centers.

Table 3.1 is a partial analysis of the selections made by the 3,373 farmers delivering grain to points in the Tisdale study area. The recorded data cannot be easily analyzed for such things as loyalty to a specific grain handling company, best road access and availability of particular shopping or service facilities. It is, however, possible to make the following observations:

1. Farmers hauling to smaller communities were more inclined to select an alternate point than those delivering to larger communities.
2. Farmers hauling to smaller communities were more likely to choose the next nearest elevator as their alternate point.
3. A large percentage of farmers chose a greater town or city as their alternate point unless they were already delivering to a larger center.
4. For the study area 20.2 percent of those permit holders who specified an alternate chose a delivery point in a different loading block; however no clear pattern emerged in respect to size of community preferred by farmers.

Combinations of factors were also important. For instance, 17 of 23 permit holders with Lurgan as their basic delivery point chose Tisdale as their alternate point because, in addition to being nearby, Tisdale was a larger center offering a full range of commercial and social services. Tisdale, furthermore, attracted 34 out of the 44 Runciman permit holders who specified an alternate point. No Runciman producers chose Lurgan for alternate delivery although that point is located between Runciman and Tisdale.

TABLE 3.1 PRODUCERS' CHOICE OF ALTERNATE DELIVERY POINTS, 1970-71

| Delivery Point | Number of Farmers | Percent of Farmers Not Choosing Alternate | Number of Farmers Choosing Alternate | Alternate Chosen | | Loading Block Chosen | |
|-----------------------|--------------------|---|--------------------------------------|---|----------------------------|----------------------|-----------|
| | | | | Next Nearest Point | Larger Center ^a | Same | Different |
| | | | | - percent of farmers choosing alternate - | | | |
| Too Small to Classify | | | | | | | |
| 1 Clashmoor | Closed | | | | | | |
| 2 Veillardville | Closed | | | | | | |
| 3 Golburn | Closed | | | | | | |
| 4 Lurgan | 23 | 4.4 | 22 | 100.0 | 77.3 | 77.3 | 22.7 |
| 5 New Osgoode | 35 | 5.7 | 33 | 78.8 | 15.2 | 97.0 | 3.0 |
| Hamlets | | | | | | | |
| 6 Carlea | 23 | 4.4 | 22 | 81.8 | 4.6 | 90.9 | 9.1 |
| 7 Moose Range | 25 | 0.0 | 25 | 100.0 | 56.0 | 100.0 | 0.0 |
| 8 Usherville | Closed for storage | | | | | | |
| 9 Peesane | 29 | 0.0 | 29 | 100.0 | 0.0 | 100.0 | 0.0 |
| 10 Leacross | 14 | 0.0 | 14 | 57.1 | 21.4 | 35.7 | 64.3 |
| 11 Clemenceau | 30 | 86.7 | 4 | 75.0 | 50.0 | 0.0 | 100.0 |
| 12 Runciman | 45 | 2.2 | 44 | 11.4 | 77.3 | 77.3 | 22.7 |
| 13 Armley | 28 | 0.0 | 28 | 64.3 | 17.9 | 32.1 | 67.9 |
| 14 Nut Mountain | 110 | 39.1 | 67 | 98.5 | 74.6 | 100.0 | 0.0 |
| Villages | | | | | | | |
| 15 Eldersley | 78 | 1.3 | 77 | 84.4 | 49.4 | 90.9 | 9.1 |
| 16 Valparaíso | 109 | 3.7 | 105 | 93.3 | 63.8 | 92.4 | 7.6 |
| 17 McKague | 46 | 2.2 | 45 | 73.3 | 40.0 | 86.7 | 13.3 |
| 18 Sylvia | 104 | 0.0 | 104 | 85.6 | 60.6 | 62.5 | 37.5 |
| 19 Somme | 87 | 0.0 | 87 | 96.6 | 3.4 | 97.7 | 2.3 |
| 20 Chelan | 118 | 8.5 | 108 | 94.4 | 48.2 | 94.4 | 5.6 |
| 21 Prairie River | 110 | 39.1 | 67 | 89.6 | 31.3 | 73.1 | 26.9 |
| 22 Crooked River | 66 | 3.0 | 64 | 79.7 | 9.4 | 100.0 | 0.0 |
| 23 Carragana | 78 | 20.5 | 62 | 77.4 | 22.6 | 100.0 | 0.0 |
| 24 Mistatim | 140 | 34.3 | 92 | 73.9 | 15.2 | 100.0 | 0.0 |
| 25 Weekes | 110 | 21.8 | 86 | 76.7 | 10.5 | 77.9 | 22.1 |
| 26 Bjorkdale | 148 | 28.4 | 106 | 77.4 | 13.2 | 90.6 | 9.4 |
| 27 Aylsham | 119 | 22.7 | 92 | 34.8 | 68.5 | 67.4 | 32.6 |
| 28 Archerwill | 197 | 42.1 | 114 | 36.0 | 35.1 | 49.1 | 50.9 |
| Towns | | | | | | | |
| 29 Zenon Park | 95 | 16.8 | 79 | 82.3 | 0.0 | 93.7 | 6.3 |
| 30 Arborfield | 210 | 28.6 | 150 | 26.7 | 48.0 | 86.0 | 14.0 |
| Greater Towns | | | | | | | |
| 31 Porcupine Plain | 195 | 32.3 | 132 | 91.7 | 7.6 | 91.7 | 8.3 |
| 32 Kelvington | 362 | 34.0 | 239 | 40.6 | 6.3 | 41.8 | 58.2 |
| 33 Carrot River | 428 | 32.5 | 289 | 36.0 | 23.5 | 71.6 | 28.4 |
| 34 Tisdale | 211 | 31.8 | 144 | 70.8 | 0.0 | 100.0 | 0.0 |
| Study Area Total | 3,373 | 25.0 | 2,530 | 65.9 | 28.4 | 79.8 | 20.2 |
| | | | | | | | 12.1 |

^aIncluded are Carrot River, Hudson Bay, Kelvington, Melfort, Nipawin, Porcupine Plain, Saskatoon and Tisdale.

^bMelfort and Tisdale.

Source: Canadian Wheat Board, Winnipeg.

Delivery Permit Books Issued

Table 3.2 shows that the number of permit books issued for the study area as a whole decreased by 1,024, 24.1 percent, between 1962-63 and 1971-72. The only point with an increase was Tisdale where six more permits were issued in 1971-72 than in 1962-63, a gain of 3.4 percent.

Moose Range and Leacross lost the highest percentages of permit holders: 67.9 and 54.3 percent respectively. The largest absolute losses were 109 permit holders at Porcupine Plain and 113 at Kelvington.

TABLE 3.2 DELIVERY PERMIT BOOKS ISSUED BY DELIVERY POINT, 1962-63 TO 1971-72

| Delivery Point | 1962-63 | 1963-64 | 1964-65 | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | 1971-72 ^a |
|------------------------------|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------|
| <i>Too Small to Classify</i> | | | | | | | | | | |
| 1 Clashmoor | 35 | 28 | 23 | 18 | 8 | Closed | Closed | 20 | Closed | 20 |
| 2 Veillardville | 45 | 39 | 37 | 34 | 24 | * | 20 | 27 | 35 | 35 |
| 3 Golburn | 33 | 35 | 32 | 29 | 27 | 21 | 34 | 33 | | |
| 4 Lurgan | 37 | 36 | 36 | 35 | 37 | 36 | 47 | 35 | | |
| 5 New Osgoode | 58 | 59 | 56 | 53 | 53 | 50 | | | | |
| <i>Hamlets</i> | | | | | | | | | | |
| 6 Carlea | 42 | 39 | 38 | 32 | 31 | 28 | 28 | 26 | 23 | 20 |
| 7 Moose Range | 53 | 60 | 64 | 48 | 39 | 37 | 35 | 28 | 25 | 17 |
| 8 Usherville | * | * | * | * | * | * | * | * | * | Closed |
| 9 Peesane | 57 | 53 | 51 | 47 | 39 | 35 | 34 | 30 | 29 | 27 |
| 10 Leacross | 35 | 38 | 37 | 36 | 34 | 34 | 36 | 16 | 14 | 16 |
| 11 Clenenceau | 44 | 40 | 42 | 38 | 34 | 33 | 33 | 34 | 30 | 28 |
| 12 Runciman | 68 | 66 | 63 | 65 | 61 | 57 | 57 | 41 | 45 | 44 |
| 13 Armley | 59 | 58 | 55 | 54 | 50 | 47 | 33 | 27 | 28 | 29 |
| 14 Nut Mountain | 140 | 141 | 139 | 132 | 127 | 114 | 111 | 114 | 110 | 112 |
| <i>Villages</i> | | | | | | | | | | |
| 15 Eldersley | 111 | 110 | 111 | 111 | 83 | 74 | 76 | 80 | 78 | 77 |
| 16 Valparaiso | 140 | 134 | 133 | 135 | 122 | 117 | 115 | 115 | 109 | 111 |
| 17 McKague | 99 | 95 | 90 | 84 | 76 | 70 | 66 | 53 | 46 | 49 |
| 18 Sylvia | 132 | 125 | 129 | 125 | 121 | 112 | 119 | 110 | 104 | 108 |
| 19 Somme | 116 | 116 | 115 | 111 | 108 | 103 | 101 | 98 | 87 | 89 |
| 20 Chelan | 147 | 154 | 146 | 141 | 129 | 122 | 123 | 123 | 118 | 107 |
| 21 Prairie River | 116 | 121 | 114 | 112 | 108 | 105 | 106 | 113 | 110 | 112 |
| 22 Crooked River | Elevator constructed in 1966 | | | n.a. | 42 | 51 | 57 | 63 | 66 | 68 |
| 23 Carragana | 117 | 106 | 106 | 104 | 87 | 80 | 81 | 82 | 78 | 70 |
| 24 Mistatim | 143 | 136 | 142 | 138 | 136 | 130 | 136 | 136 | 140 | 132 |
| 25 Weekes | 130 | 128 | 125 | 124 | 120 | 121 | 115 | 115 | 110 | 103 |
| 26 Bjorkdale | 167 | 161 | 152 | 150 | 143 | 148 | 146 | 154 | 148 | 134 |
| 27 Aylsham | 138 | 139 | 136 | 133 | 131 | 123 | 118 | 124 | 119 | 105 |
| 28 Archerwill | 257 | 262 | 246 | 245 | 230 | 212 | 207 | 201 | 197 | 196 |
| <i>Towns</i> | | | | | | | | | | |
| 29 Zenon Park | 105 | 106 | 98 | 94 | 90 | 87 | 90 | 101 | 95 | 83 |
| 30 Arborfield | 261 | 257 | 248 | 241 | 234 | 228 | 218 | 217 | 210 | 213 |
| <i>Greater Towns</i> | | | | | | | | | | |
| 31 Porcupine Plain | 272 | 265 | 260 | 236 | 233 | 224 | 219 | 216 | 195 | 163 |
| 32 Kelvington | 464 | 459 | 449 | 429 | 397 | 362 | 373 | 381 | 362 | 351 |
| 33 Carrot River | 451 | 444 | 435 | 443 | 440 | 433 | 436 | 447 | 428 | 428 |
| 34 Tisdale | 178 | 169 | 166 | 175 | 171 | 167 | 158 | 189 | 211 | 184 |
| Study Area Total | 4,250 | 4,179 | 4,074 | 3,952 | 3,765 | 3,561 | 3,528 | 3,516 | 3,373 | 3,226 |

*Storage only.

n.a. - Not available

^aPermit declarations processed to Sept. 22, 1971.

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

Canadian Wheat Board Initial Payments

Under the Canadian Wheat Board marketing system, producers receive an initial payment upon delivery of their grain to country elevators. Table 3.3 shows net initial payments based on prices set at the Lakehead less freight costs from delivery points and less country elevator handling charges.¹ Initial payment levels established each year by an order-in-council of the federal cabinet are subject to change from year to year.² Initial payments in 1969-70, for example, were substantially lower than in 1968-69. In 1971-72 initial payments were the same or slightly below those set two years before.

Freight rate zones have been established following a general north-south orientation and increasing by one-cent-per-hundredweight steps as one moves west from the Lakehead. Figure 3.1 shows freight rate zones in northern Saskatchewan which include the study area. According to Figure 3.1 freight rates in the Tisdale region range from 20 to 23 cents per hundredweight. Carrot River and Moose Range are the only delivery points in the 23-cent zone.

Since net initial payments are, of course, slightly higher in a 20-cent freight rate zone than in a 21-cent zone, it follows that a farmer who is located on or near the boundary between those two zones will consider the price differential in choosing his delivery point. For example, a farmer delivering wheat to Kelvington receives \$1.28 1/4 per bushel (No. 1 C.W. Red Spring Wheat, 1971-72), 3/4 of a cent more than the \$1.27 1/2 per bushel paid at nearby Nut Mountain. To the extent that differing prices influence each farmer's choice of a delivery point, the size and shape of delivery point hinterlands are correspondingly affected.

¹In 1971-72, for instance, the handling charge was 5 3/4 cents per bushel of wheat, durum or barley and 4 1/2 cents per bushel of oats. This statutory charge is comprised of the country elevator elevation charge plus a portion of the terminal elevator handling charge.

²For a more detailed description of how the initial payment is arrived at, see J.W. Channon, "How Canadian Wheat is Handled," Canadian Journal of Agricultural Economics, Workshop Proceedings, 1969, p. 88.

TABLE 3.3 CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS BY FREIGHT RATES, BASIS THUNDER BAY, ONTARIO^a

| Grain Freight Rates to Lakehead ^b | Wheat | | Durum | | Oats | | Barley | |
|--|------------------------------------|----------------|----------------|--------------|--------------|------------|----------------|------------|
| | No. 1 Northern | No. 2 Northern | No. 1 Northern | No. 2 C.W.A. | No. 1 C.W.A. | No. 2 C.W. | No. 3 C.W. Row | No. 1 Feed |
| - cents/cwt. - | - dollars per bushel - | | | | | | | |
| 1968-69 | | | | | | | | |
| 18 | 1.53 1/2 | 1.49 1/2 | 1.38 1/2 | 1.49 1/2 | 1.38 1/2 | .54 5/8 | .91 3/4 | .82 3/4 |
| 19 | 1.53 | 1.49 | 1.38 | 1.49 | 1.38 | .54 1/4 | .91 3/8 | .82 3/8 |
| 20 | 1.52 1/2 | 1.48 1/2 | 1.37 1/2 | 1.48 1/2 | 1.37 1/2 | .53 7/8 | .90 7/8 | .81 7/8 |
| 21 | 1.51 3/4 | 1.47 3/4 | 1.36 3/4 | 1.47 3/4 | 1.36 3/4 | .53 1/2 | .90 3/8 | .81 3/8 |
| 22 | 1.51 1/4 | 1.47 1/4 | 1.36 1/4 | 1.47 1/4 | 1.36 1/4 | .53 1/4 | .89 7/8 | .80 7/8 |
| 23 | 1.50 1/2 | 1.46 1/2 | 1.35 1/2 | 1.46 1/2 | 1.35 1/2 | .52 7/8 | .89 3/8 | .80 3/8 |
| 24 | 1.50 | 1.46 | 1.35 | 1.46 | 1.35 | .52 1/2 | .88 7/8 | .79 7/8 |
| 1969-70 | | | | | | | | |
| 18 | 1.33 1/4 | 1.29 1/4 | 1.16 1/4 | 1.29 1/4 | 1.16 1/4 | .49 3/8 | .76 1/2 | .66 1/2 |
| 19 | 1.32 3/4 | 1.28 3/4 | 1.15 3/4 | 1.28 3/4 | 1.15 3/4 | .49 | .76 1/8 | .66 1/8 |
| 20 | 1.32 1/4 | 1.28 1/4 | 1.15 1/4 | 1.28 1/4 | 1.15 1/4 | .48 5/8 | .75 5/8 | .65 5/8 |
| 21 | 1.31 1/2 | 1.27 1/2 | 1.14 1/2 | 1.27 1/2 | 1.14 1/2 | .48 1/4 | .75 1/8 | .65 1/8 |
| 22 | 1.31 | 1.27 | 1.14 | 1.27 | 1.14 | .48 | .74 5/8 | .64 5/8 |
| 23 | 1.30 1/4 | 1.26 1/4 | 1.13 1/4 | 1.26 1/4 | 1.13 1/4 | .47 5/8 | .74 1/8 | .64 1/8 |
| 24 | 1.29 3/4 | 1.25 3/4 | 1.12 3/4 | 1.25 3/4 | 1.12 3/4 | .47 1/4 | .73 5/8 | .63 5/8 |
| 1971-72 | No. 1 C.W. Red Spring ^c | | | | | | | |
| 18 | 1.29 1/4 | 1.16 1/4 | 1.29 1/4 | 1.25 1/4 | 1.12 1/4 | .49 3/8 | .76 1/2 | .66 1/2 |
| 19 | 1.28 3/4 | 1.15 3/4 | 1.28 3/4 | 1.24 3/4 | 1.11 3/4 | .49 | .76 1/8 | .66 1/8 |
| 20 | 1.28 1/4 | 1.15 1/4 | 1.28 1/4 | 1.24 1/4 | 1.11 1/4 | .48 5/8 | .75 5/8 | .65 5/8 |
| 21 | 1.27 1/2 | 1.14 1/2 | 1.27 1/2 | 1.23 1/2 | 1.10 1/2 | .48 1/4 | .75 1/8 | .65 1/8 |
| 22 | 1.27 | 1.14 | 1.27 | 1.23 | 1.10 | .48 | .74 5/8 | .64 5/8 |
| 23 | 1.26 1/4 | 1.13 1/4 | 1.26 1/4 | 1.22 1/4 | 1.09 1/4 | .47 5/8 | .74 1/8 | .64 1/8 |
| 24 | 1.25 3/4 | 1.12 3/4 | 1.25 3/4 | 1.21 3/4 | 1.08 3/4 | .47 1/4 | .73 5/8 | .63 5/8 |

^a Prior to deduction of the Prairie Farm Assistance Act levy of one percent. These prices are also known as "street prices".

^b Flaxseed and rapeseed 1 1/2 cents per hundredweight higher.

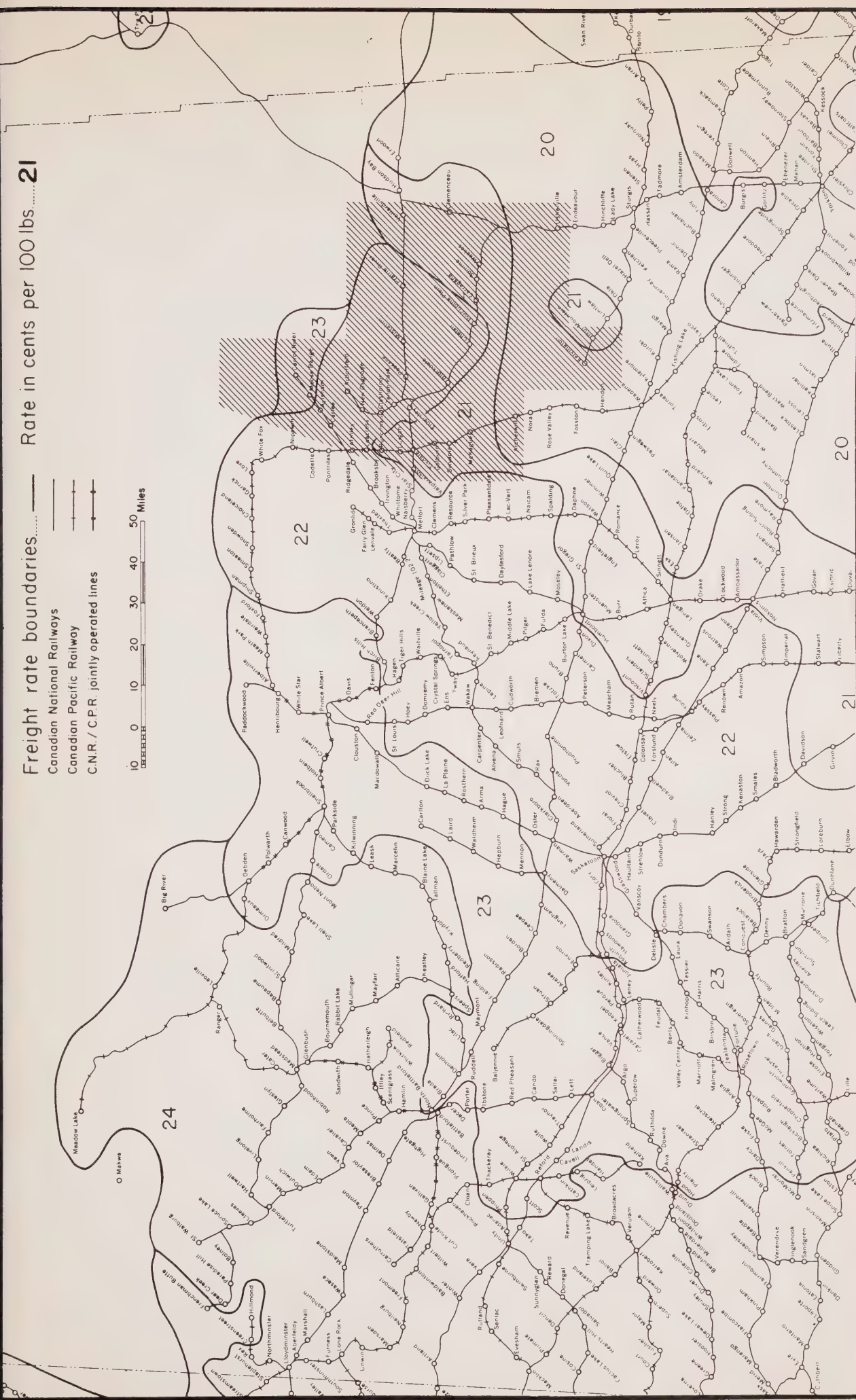
^c Effective August 1, 1971 the grades No. 1 and No. 2 Manitoba Northern were replaced by the new grade No. 1 Canadian Western Red Spring Wheat.

Source: Canadian Wheat Board, Winnipeg.

Freight rate boundaries.....21

Canadian National Railways
Canadian Pacific Railway
C.N.R. / C.P.R. jointly operated lines

10 0 10 20 30 40 50 Miles



EXPORT GRAIN FREIGHT RATES PER 100 LBS. FROM NORTHERN SASKATCHEWAN TO THUNDER BAY, ONTARIO

Source: Map "Eastbound Export Grain Rates Per 100 lbs. Based on CNR Armstrong, Fort William, Port Arthur and West Fort William, and CPR to Fort William, Port Arthur and West Fort William" Geographical Branch, Department of Mines and Technical Surveys, Ottawa, 1965.

Figure 3.1

Country Elevator Facilities

The number of grain elevators and their storage capacity at a delivery point are measurements of the importance of that particular point as a collection and distribution centre.¹ Table 3.4 contains this sort of information for each delivery point in the Tisdale region in both 1962-63 and 1969-70 as well as the number of grain companies represented in 1962 and 1969.

The number of elevators at each point in the study area changed very little between 1962-63 and 1969-70, the net result at the end of the period being an increase of one elevator. Storage capacity increased at 8 delivery points, decreased at 9 points (includes 2 closures) and remained the same at 17 points. The result was an overall increase in capacity of 1,244,000 bushels, 18.8 percent.

An examination of the number of grain companies located at the delivery points reveals the fact that, where there are two or more elevators, two or more companies are usually present. This is an indication of competition by elevator firms. Ten delivery points had one less company in 1969 than in 1962; three points had one more company. There were 12 one-company points in 1969 compared with 10 in 1962.

Table 3.5 includes information on ownership, age and capacity of country elevators in the study area as of August 1, 1971. Altogether there were 30 open delivery points at which representation by the different elevator companies was as follows: Saskatchewan Wheat Pool, 25 points; Federal Grain Ltd., 13 points; United Grain Growers Ltd., 10 points; Pioneer Grain Co. Ltd., 8 points and National Grain Co. Ltd., 2 points.

The average age of the 75 elevators recorded in Table 3.5 was 33 years in 1971. Fifty-four elevators, 72 percent, were built before 1940; only five, less than seven percent, were built since 1960. The average storage capacity of elevators erected before 1940 including annexes is 90,000 bushels. Elevators built after 1939 have an average capacity of 130,000 bushels including annexes. The two oldest elevators were constructed in 1921 at Nut Mountain and Tisdale.

¹Bushel receipts should also be taken into account. See Table 3.6.

TABLE 3.4 NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT,
1962-63 AND 1969-70

| Delivery Point | Number of Elevators | | Storage Capacity | | Number of Grain Companies | |
|-------------------------------|---------------------|----------------|------------------|---------|---------------------------|----------------|
| | 1962-63 | 1969-70 | 1962-63 | 1969-70 | Aug. 1, 1962 | Aug. 1, 1969 |
| | - number - | | - '000 bushels - | | - number - | |
| <i>Too Small to Classify</i> | | | | | | |
| 1 Clashmoor | 1 | Closed | 30 | - | 1 | - |
| 2 Veillardville | 1 | Closed | 35 | - | 1 | - |
| 3 Golburn | 1 | 1 | 53 | 53 | 1 | 1 |
| 4 Lurgan | 2 | 2 | 117 | 99 | 2 | 2 |
| 5 New Osgoode | 2 | 2 | 100 | 77 | 2 | 2 |
| <i>Hamlets</i> | | | | | | |
| 6 Carlea | 1 | 1 | 75 | 57 | 1 | 1 |
| 7 Moose Range | 2 | 2 | 92 | 92 | 2 | 1 |
| 8 Usherville | 1 ^a | 1 ^a | 27 | 27 | 1 | 1 |
| 9 Peesane | 1 | 1 | 28 | 28 | 1 | 1 |
| 10 Leacross | 1 | 1 | 54 | 54 | 1 | 1 |
| 11 Clemenceau | 1 | 1 | 25 | 25 | 1 | 1 |
| 12 Runciman | 2 | 2 | 119 | 142 | 2 | 2 |
| 13 Armley | 2 | 2 | 124 | 107 | 2 | 1 |
| 14 Nut Mountain | 4 | 4 | 224 | 224 | 3 | 2 |
| <i>Villages</i> | | | | | | |
| 15 Eldersley | 2 | 2 | 163 | 163 | 2 | 2 |
| 16 Valparaiso | 3 | 3 | 297 | 297 | 3 | 3 |
| 17 McKague | 1 | 1 | 51 | 51 | 1 | 1 |
| 18 Sylvania | 3 | 3 | 221 | 221 | 3 | 2 |
| 19 Somme | 2 | 2 | 161 | 161 | 2 | 2 |
| 20 Chelan | 2 | 2 | 118 | 118 | 2 | 1 |
| 21 Prairie River | 2 | 2 | 112 | 187 | 2 | 2 |
| 22 Crooked River ^b | - | 1 | - | 215 | - | 1 |
| 23 Carragana | 2 | 2 | 138 | 122 | 2 | 1 |
| 24 Mistatim | 1 | 2 | 68 | 320 | 1 | 2 |
| 25 Weekes | 2 | 2 | 186 | 186 | 2 | 2 |
| 26 Bjorkdale | 2 | 2 | 169 | 169 | 2 | 2 |
| 27 Aylsham | 5 | 4 | 541 | 526 | 5 | 4 |
| 28 Archerwill | 3 | 3 | 345 | 386 | 3 | 3 |
| <i>Towns</i> | | | | | | |
| 29 Zenon Park | 3 | 3 | 275 | 275 | 3 | 3 |
| 30 Arborfield | 5 | 5 | 684 | 643 | 3 | 2 |
| <i>Greater Towns</i> | | | | | | |
| 31 Porcupine Plain | 3 | 3 | 218 | 218 | 3 | 3 |
| 32 Kelvington | 6 | 6 | 646 | 669 | 3 | 3 |
| 33 Carrot River | 5 | 7 | 767 | 1,345 | 3 | 4 |
| 34 Tisdale | 4 | 4 | 344 | 594 | 3 | 3 |
| Study Area Total | 78 | 79 | 6,607 | 7,851 | 8 ^c | 5 ^c |

^aElevator used for storage only.

^bElevator constructed in 1966.

^cGrain companies represented are:

Early Feed and Seed Ltd. (Not present in 1969-70)
Federal Grain Ltd.
Inter-Ocean Grain Co. Ltd. (Not present in 1969-70)
National Grain Co. Ltd.
Pioneer Grain Co. Ltd.
Saskatchewan Wheat Pool
United Grain Growers Ltd.
Searle Grain Co. Ltd. (Not present in 1969-70)

Source: Canadian Grain Commission, Winnipeg.

TABLE 3.5 COUNTRY ELEVATORS: OWNER, AGE AND CAPACITY BY DELIVERY POINT,
1970-71

| Delivery Point | Elevator Company | Year of Construction | | Storage Capacity |
|------------------------------|-------------------------|----------------------|----------------------|------------------|
| | Aug. 1, 1971 | Elevator | Annex | Aug. 1, 1971 |
| | | | | - '000 bus. - |
| <i>Too Small to Classify</i> | | | | |
| 1 Clashmoor | Closed | | | |
| 2 Veillardville | Closed | | | |
| 3 Golburn | Closed | | | |
| 4 Lurgan | Sask. Wheat Pool | 1924 | | 48 |
| | National Grain | Not available | | 51 |
| 5 New Osgoode | United Grain Growers #1 | 1929 | | 25 |
| | United Grain Growers #2 | 1929 | 1940 | 52 |
| <i>Hamlets</i> | | | | |
| 6 Carlea | Sask. Wheat Pool | 1934 | 1955 | 57 |
| 7 Moose Range | Federal Grain #1 | 1929 | | 37 |
| | Federal Grain #2 | 1931 | | 30 |
| 8 Usherville | Closed | | | |
| 9 Peesane | Sask. Wheat Pool | 1938 | | 28 |
| 10 Leacross | Sask. Wheat Pool | 1934 | 1950 | 54 |
| 11 Clemenceau | Federal Grain | 1939 | | 25 |
| 12 Runciman | Sask. Wheat Pool "A" | 1924 | 1963 | 74 |
| | Sask. Wheat Pool "B" | 1932 | 1941 | 50 |
| 13 Armley | Federal Grain #1 | 1925 | 1940 | 45 |
| | Federal Grain #2 | 1924 | 1952 | 62 |
| 14 Nut Mountain | Sask. Wheat Pool "A" | 1956 | 1939 | 52 |
| | Sask. Wheat Pool "B" | 1939 | | 26 |
| | United Grain Growers #1 | 1921 | 1949 | 49 |
| | United Grain Growers #2 | 1934 | 1939 & 1950 | 97 |
| <i>Villages</i> | | | | |
| 15 Eldersley | Pioneer Grain | 1922 | 1940 & 1951 | 71 |
| | Sask. Wheat Pool | 1924 | 1940 & 1951 | 92 |
| 16 Valparaiso | Federal Grain | 1956 | 1956 | 84 |
| | National Grain | 1956 | 1956(2) ^a | 106 |
| | Sask. Wheat Pool | 1956 | | 107 |
| 17 McKague | Sask. Wheat Pool | 1924 | 1940 | 51 |
| 18 Sylvania | Pioneer Grain #1 | 1924 | 1940, 1951 & 1952 | 100 |
| | Pioneer Grain #2 | 1924 | 1952 | 41 |
| | Sask. Wheat Pool | 1924 | 1940 & 1951 | 80 |
| 19 Somme | Federal Grain | 1938 | 1939 & 1950 | 71 |
| | Sask. Wheat Pool | 1947 | 1950 | 90 |
| 20 Chelan | Sask. Wheat Pool "A" | 1929 | 1960 | 70 |
| | Sask. Wheat Pool "B" | 1938 | | 48 |
| 21 Prairie River | Federal Grain | 1939 | 1953 | 61 |
| | Sask. Wheat Pool | 1958 | 1965 | 126 |
| 22 Crooked River | Pioneer Grain | 1966 | 1967 | 215 |
| 23 Carragana | Sask. Wheat Pool "A" | 1929 | 1953 | 80 |
| | Sask. Wheat Pool "B" | 1937 | 1939 | 42 |
| 24 Mistatim | Pioneer Grain | 1964 | 1966 | 205 |
| | Sask. Wheat Pool | 1938 | 1954 & 1964 | 215 |
| 25 Weekes | Federal Grain | 1957 | 1957 | 82 |
| | Sask. Wheat Pool | 1938 | 1949 & 1950 | 104 |
| 26 Bjorkdale | Federal Grain | 1959 | 1959 | 74 |
| | Sask. Wheat Pool | 1928 | 1951 & 1952 | 95 |
| 27 Aylsham | Federal Grain | 1930 | 1931, 1949 & 1957 | 135 |
| | Pioneer Grain | 1930 | 1939, 1949 & 1957 | 123 |
| | Sask. Wheat Pool | 1937 | 1939 & 1949 | 88 |
| | United Grain Growers | 1932 | 1939, 1952 & 1957 | 162 |

See footnotes at end of table

(continued)

TABLE 3.5 COUNTRY ELEVATORS: OWNER, AGE AND CAPACITY BY DELIVERY POINT,
1970-71 (concluded)

| Delivery Point | Elevator Company | Year of Construction | | Storage Capacity |
|----------------------|-------------------------|----------------------|---|------------------|
| | Aug. 1, 1971 | Elevator | Annex | Aug. 1, 1971 |
| - '000 bus. - | | | | |
| 28 Archerwill | Sask. Wheat Pool "A" | 1932 | 1939, 1950(2) ^a , 1953 & 1968 | 146 |
| | Sask. Wheat Pool "B" | Not available | | 98 |
| | United Grain Growers | 1932 | 1950 & 1958 | 142 |
| <i>Towns</i> | | | | |
| 29 Zenon Park | Pioneer Grain | 1929 | 1949 & 1953 | 76 |
| | Sask. Wheat Pool | 1929 | 1950 & 1960 | 104 |
| | United Grain Growers | 1929 | 1940 & 1952 | 78 |
| 30 Arborfield | National Grain | 1929 | 1939 & 1949 | 77 |
| | Pioneer Grain | 1929 | 1939, 1948, 1953 & 1958 | 210 |
| | Sask. Wheat Pool | 1929 | 1939 & 1949 | 82 |
| | United Grain Growers #1 | 1929 | 1939, 1951 & 1956 | 156 |
| | United Grain Growers #2 | 1939 | 1940, 1948 & 1951 | 118 |
| | | | | |
| <i>Greater Towns</i> | | | | |
| 31 Porcupine Plain | Sask. Wheat Pool | 1936 | 1939 & 1954 | 84 |
| | United Grain Growers #1 | 1940 | 1949 | 57 |
| | United Grain Growers #2 | 1931 | 1949 & 1959 | 74 |
| 32 Kelvington | Federal Grain #1 | 1960 | 1953 & 1966 | 147 |
| | Federal Grain #2 | 1958 | 1930 & 1939 | 119 |
| | Sask. Wheat Pool "A" | 1960 | 1923, 1932(2) ^a & 1940 | 86 |
| | Sask. Wheat Pool "B" | 1925 | 1940, 1949 & 1957 | 128 |
| | Sask. Wheat Pool "C" | Not available | | 62 |
| | United Grain Growers | 1922 | 1939 & 1957 | 127 |
| 33 Carrot River | Federal Grain | 1965 | | 105 |
| | Pioneer Grain #1 | 1931 | 1939, 1948, 1953 & 1957 | 222 |
| | Pioneer Grain #2 | 1964 | 1966 & 1969 | 365 |
| | Sask. Wheat Pool "A" | 1937 | 1948 & 1952 | 97 |
| | Sask. Wheat Pool "B" | 1949 | 1951 | 111 |
| | Sask. Wheat Pool "C" | 1969 | | 110 |
| | United Grain Growers #1 | 1939 | 1939, 1948, 1949 & 1960 | 187 |
| | United Grain Growers #2 | 1952 | 1957 | 148 |
| 34 Tisdale | Federal Grain | 1950 | 1930 & 1963 | 120 |
| | Sask. Wheat Pool | 1929 | 1940 & 1954 | 225 |
| | United Grain Growers #1 | 1954 | 1963 | 222 |
| | United Grain Growers #2 | 1921 | | 27 |

^aTwo annexes constructed in the same year.

Source: Canadian Grain Commission, Winnipeg.

Receipts of Grain at Country Elevators

Annual receipts of grain is another measurement of the importance of a grain collection and distribution center. Receipts for the crop years 1962-63 to 1970-71 are presented in Table 3.6 for each delivery point in the study area.

For all points open in 1970-71, the ten-year average receipts range from 60,000 bushels at Peesane to 1,413,000 bushels at Carrot River. The observation that grain receipts are commensurate with the size of the community can be illustrated by listing the ten-year average for each community class size: "too small to classify", 112,000 bushels; hamlets, 155,000 bushels; villages, 339,000 bushels; towns, 669,000 bushels; and greater towns, 1,015,000 bushels.

Receipts vary considerably from year to year reflecting such things as crop yields and grain marketings. Total study area receipts for the nine-year period ranged from a low of 10.9 million bushels to a high of 15.8 million bushels.

TABLE 3.6 RECEIPTS OF GRAIN AT LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 TO 1970-71 AND TEN-YEAR AVERAGE

| Delivery Point | 1962-63 ^a | 1963-64 | 1964-65 | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | Ten-Year Average 1960-61 to 1969-70 |
|------------------------------|------------------------------|---------|---------|---------|---------|---------|------------------|---------|---------|---|
| - '000 bushels - | | | | | | | | | | |
| <i>Too Small to Classify</i> | | | | | 8 | Closed | Closed | | | 60 ^b |
| 1 Clashmoor | 104 | 130 | 67 | 49 | 39 | * | | | | 62 ^b |
| 2 Veillardville | 81 | 83 | 87 | 44 | 70 | 43 | | 41 | Closed | 60 ^b |
| 3 Golburn | 80 | 111 | 75 | 49 | 190 | 147 | 47 | 110 | 113 | 153 |
| 4 Lurgan | 191 | 207 | 176 | 176 | 283 | 201 | 125 | 166 | 150 | 217 |
| 5 New Osgoode | 247 | 319 | 238 | 239 | | | 189 | | | |
| <i>Hamlets</i> | | | | | | | | | | |
| 6 Carlea | 165 | 188 | 137 | 123 | 135 | 96 | 108 | 121 | 85 | 133 |
| 7 Moose Range | 162 | 248 | 236 | 181 | 198 | 149 | 122 ^c | 127 | 100 | 174 |
| 8 Usherville | * | * | * | * | * | * | * | * | * | 23 ^b |
| 9 Peesane | 62 | 97 | 50 | 55 | 81 | 70 | 65 | 58 | 56 | 60 |
| 10 Leacross | 105 | 130 | 84 | 91 | 142 | 83 | 105 | 65 | 66 | 93 |
| 11 Clemenceau | 141 | 150 | 125 | 81 | 83 | 68 | 77 | 89 | 99 | 91 |
| 12 Runciman | 309 | 338 | 255 | 275 | 335 | 239 | 240 | 173 | 240 | 255 |
| 13 Armley | 187 | 223 | 132 | 194 | 186 | 148 | 79 | 103 | 119 | 148 |
| 14 Nut Mountain | 397 | 514 | 505 | 496 | 472 | 331 | 379 | 421 | 503 | 419 |
| <i>Villages</i> | | | | | | | | | | |
| 15 Eldersley | 416 | 474 | 387 | 385 | 382 | 251 | 266 | 359 | 399 | 335 |
| 16 Valparaíso | 659 | 707 | 573 | 545 | 581 | 421 | 453 | 533 | 521 | 527 |
| 17 McKague | 127 | 168 | 113 | 63 | 114 | 99 | 115 | 102 | 109 | 101 |
| 18 Sylvia | 488 | 524 | 446 | 411 | 412 | 340 | 348 | 365 | 420 | 380 |
| 19 Somme | 475 | 500 | 484 | 364 | 493 | 338 | 276 | 440 | 479 | 392 |
| 20 Chelan | 279 | 380 | 281 | 169 | 219 | 235 | 232 | 290 | 293 | 238 |
| 21 Prairie River | 343 | 389 | 323 | 238 | 391 | 319 | 294 | 442 | 441 | 307 |
| 22 Crooked River | Elevator constructed in 1966 | | | | | 131 | 178 | 199 | 246 | 131 ^b |
| 23 Carragana | 381 | 383 | 364 | 247 | 321 | 229 | 197 | 223 | 211 | 274 |
| 24 Mistatim | 321 | 368 | 283 | 209 | 363 | 290 | 258 | 397 | 360 | 278 |
| 25 Weekes | 435 | 427 | 423 | 310 | 459 | 330 | 312 | 394 | 444 | 354 |
| 26 Bjorkdale | 378 | 477 | 417 | 229 | 332 | 312 | 359 | 362 | 365 | 324 |
| 27 Aylsham | 584 | 708 | 682 | 722 | 647 | 470 | 621 | 734 | 592 | 629 |
| 28 Archerwill | 603 | 676 | 600 | 406 | 509 | 454 | 438 | 503 | 589 | 480 |
| <i>Towns</i> | | | | | | | | | | |
| 29 Zenon Park | 473 | 600 | 468 | 379 | 555 | 380 | 387 | 497 | 381 | 435 |
| 30 Arborfield | 1,018 | 1,207 | 920 | 771 | 1,134 | 846 | 868 | 985 | 768 | 904 |
| <i>Greater Towns</i> | | | | | | | | | | |
| 31 Porcupine Plain | 493 | 647 | 538 | 435 | 581 | 467 | 407 | 456 | 397 | 458 |
| 32 Kelvington | 1,334 | 1,750 | 1,674 | 1,554 | 1,628 | 1,169 | 1,230 | 1,461 | 1,706 | 1,371 |
| 33 Carrot River | 1,455 | 1,675 | 1,314 | 1,139 | 1,795 | 1,598 | 1,389 | 1,740 | 1,601 | 1,413 |
| 34 Tisdale | 802 | 1,049 | 930 | 864 | 943 | 665 | 762 | 675 | 1,046 | 816 |
| Study Area Total | 13,295 | 15,847 | 13,387 | 11,503 | 14,219 | 10,919 | 10,926 | 13,026 | 12,899 | 12,104 |

*Storage only.

^aRapeseed receipts are not included.

^bAverage is for those years that a delivery point had receipts.

Source: Canadian Grain Commission, Winnipeg.

Throughput Ratios

The throughput ratio of a delivery point is the total number of bushels it receives annually divided by its bushel storage capacity (Table 3.7).¹ This ratio is one measurement of the efficiency of the grain elevator or elevators at a delivery point. The ten-year average is the average annual receipts for the period divided by the rated storage capacity for 1969-70. On this basis 20 points had throughput ratios of under 2.0 and 10 points had ratios from 2.0 to 2.9. Only Clemenceau had a ratio over 3.0. Excluding Crooked River, the lowest ten-year average was recorded at Mistatim. Contrary to what might be expected, larger centers did not usually have higher throughput ratios than smaller centers.

It has been suggested that an elevator paying for itself should maintain a throughput ratio between 3.0 and 4.0.² Speculative reasoning suggests the following example. Suppose that a one-elevator delivery point has a storage capacity of 50,000 bushels. A throughput ratio of 2.0 would require the handling of 100,000 bushels per year. At 2,000 bushels per boxcar the elevator agent would have to load only 50 cars per year or one car each week for 50 weeks. A throughput ratio of 5.0 would require 250,000 bushels in receipts and the agent would be required to load 2.5 cars per week each year which does not seem unreasonable.

¹A further comparison of throughput ratios is presented in Part IV, Table 4.5.

²D. Zasada, "The Probable Effects of the Application for Railway Branch Line Abandonment on the Grain Elevator Industry", Canadian Farm Economics, April, 1968, p. 21.

TABLE 3.7 THROUGHPUT RATIOS BY DELIVERY POINT, 1962-63, 1969-70, AND
TEN-YEAR AVERAGE 1960-61 TO 1969-70

| Delivery Point | 1962-63 | 1969-70 | Ten-Year Average 1960-61 to 1969-70 |
|-------------------------------|---------|---------|--|
| <i>Too Small to Classify</i> | | | |
| 1 Clashmoor | 3.5 | Closed | - |
| 2 Veillardville | 2.3 | Closed | - |
| 3 Golburn | 1.5 | 0.8 | 1.1 |
| 4 Lurgan | 1.6 | 1.1 | 1.5 |
| 5 New Osgoode | 2.5 | 2.2 | 2.8 |
| <i>Hamlets</i> | | | |
| 6 Carlea | 2.2 | 2.1 | 2.3 |
| 7 Moose Range | 1.8 | 1.4 | 1.9 |
| 8 Usherville | * | * | - |
| 9 Peesane | 2.2 | 2.1 | 2.1 |
| 10 Leacross | 1.9 | 1.2 | 1.7 |
| 11 Clemenceau | 5.6 | 3.6 | 3.6 |
| 12 Runciman | 2.6 | 1.2 | 1.8 |
| 13 Armley | 1.5 | 1.0 | 1.4 |
| 14 Nut Mountain | 1.8 | 1.9 | 1.9 |
| <i>Villages</i> | | | |
| 15 Eldersley | 2.6 | 2.2 | 2.1 |
| 16 Valparaiso | 2.2 | 1.8 | 1.8 |
| 17 McKague | 2.5 | 2.0 | 2.0 |
| 18 Sylvania | 2.2 | 1.6 | 1.7 |
| 19 Somme | 2.9 | 2.7 | 2.4 |
| 20 Chelan | 2.4 | 2.5 | 2.0 |
| 21 Prairie River | 3.1 | 2.4 | 1.6 |
| 22 Crooked River ^a | - | 0.9 | 0.6 |
| 23 Carragana | 2.8 | 1.8 | 2.2 |
| 24 Mistatim | 4.7 | 1.2 | 0.9 |
| 25 Weekes | 2.3 | 2.1 | 1.9 |
| 26 Bjorkdale | 2.2 | 2.1 | 1.9 |
| 27 Aylsham | 1.1 | 1.4 | 1.2 |
| 28 Archerwill | 1.7 | 1.3 | 1.2 |
| <i>Towns</i> | | | |
| 29 Zenon Park | 1.7 | 1.8 | 1.6 |
| 30 Arborfield | 1.5 | 1.5 | 1.4 |
| <i>Greater Towns</i> | | | |
| 31 Porcupine Plain | 2.3 | 2.1 | 2.1 |
| 32 Kelvington | 2.1 | 2.2 | 2.0 |
| 33 Carrot River | 1.9 | 1.3 | 1.1 |
| 34 Tisdale | 2.3 | 1.8 | 1.4 |
| Study Area Total | 2.0 | 1.7 | 1.5 |

* Storage only.

^aElevator constructed in 1966.

Source: Canadian Grain Commission, Winnipeg.

Acres for Delivery Quota Purposes

Prior to the beginning of the 1970-71 crop year, the basis for determining each producer's general grain delivery quota was the acres devoted to cereal crops, summer fallow and cultivated forage crops. This land was referred to as "specified acreage". Other miscellaneous crops, native pasture and unimproved farmland were not part of the specified acreage; neither were oilseeds which had their own quotas based on declared seeded acreage.

The number of specified acres tributary to a delivery point indicate the amount of grain producing land available and the demand for grain handling and storage facilities there. Table 3.8 shows the specified acreage for each delivery point from 1962-63 to 1969-70. In 1969-70, 1,346,295 acres of the 1,863,029 acres of farmland in the Tisdale region were specified acreage. A one bushel quota would, therefore result in the delivery of about 1,346,000 bushels of grain.

From 1962-63 to 1969-70 the total specified acreage in the study area increased by 5.9 percent. Fourteen of 34 delivery points had decreases; 16 had increases. Most communities "too small to classify" and hamlets lost specified acreages; whereas villages, towns and greater towns usually gained acreages. The largest decrease, 44.6 percent, occurred at Carlea; while the largest increase, 40.3 percent, occurred at Prairie River.

Following the Operation LIFT program of 1970-71, further changes in the delivery quota system were introduced for the 1971-72 crop year. Under the new system each producer was required to calculate his total number of assignable acres by adding together his 1971 acreages in (1) the six quota grains;¹ (2) summer fallow; (3) other miscellaneous annual crops and (4) perennial forage up to one third of the total of items (1) to (3). Subject to certain regulations, total assignable acres could be distributed for quota purposes to any one of the quota grains whether or not the producer had any land seeded to the particular crop that year (1971). In consequence there are about 16 different delivery quotas, each with a separate assigned acreage and each may be terminated or increased independently by the Wheat Board.

Table 3.9 shows 1971-72 seeded and assigned quota acreages by delivery point in the Tisdale region. In the study area, quota acres assigned to durum and other wheat amounted to more than three times the acreage seeded to all wheat. The ratio of seeded acres to total quota acres for oats was 1:0.6, barley 1:1.4, rye 1:1.8, flax 1:1.8 and rape 1:1.3. An example of a delivery point where producers assigned a portion of their quota acres to a crop they did not plant in 1971 occurred at Tisdale where quota acres were assigned to Hercules durum although none was planted.

¹ These are wheat (including durum), barley, oats, rye, flaxseed and rapeseed.

TABLE 3.8 CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63 TO 1969-70

| Delivery Point | 1962-63 ^a | 1963-64 | 1964-65 | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | Percent of Change 1962-63 to 1969-70 |
|-------------------------------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| <i>Too Small to Classify</i> | | | | | | | | | |
| 1 Clashmoor | 11,522 | 8,764 | 8,257 | 6,827 | 3,205 | Closed | Closed | 5,378 | -39.8 |
| 2 Veillardville | 10,835 | 10,216 | 9,507 | 9,482 | 7,154 | * | 5,825 | 13,240 | -22.8 |
| 3 Golburn | 8,936 | 10,251 | 8,827 | 7,512 | 6,711 | 5,912 | 18,699 | 19,716 | -8.4 |
| 4 Lurgan | 17,154 | 18,881 | 19,067 | 15,787 | 15,195 | 20,186 | 24,395 | | |
| 5 New Osgoode | 21,525 | 22,872 | 23,120 | 22,349 | 21,376 | 24,035 | | | |
| <i>Hamlets</i> | | | | | | | | | |
| 6 Carlea | 17,533 | 16,602 | 13,250 | 10,865 | 10,789 | 11,793 | 11,881 | 9,722 | -44.6 |
| 7 Moose Range | 14,895 | 16,452 | 17,304 | 15,174 | 12,046 | 13,050 | 12,185 | 9,343 | -37.3 |
| 8 Osherville | * | * | * | * | * | * | * | * | - |
| 9 Peesane | 8,478 | 8,374 | 8,208 | 9,746 | 8,725 | 9,464 | 9,318 | 8,255 | -2.6 |
| 10 Leacross | 12,534 | 12,952 | 12,920 | 12,411 | 12,411 | 13,233 | 15,929 | 7,001 | -44.1 |
| 11 Clemenceau | 12,965 | 12,935 | 14,506 | 13,796 | 12,839 | 13,049 | 14,740 | 13,676 | +5.5 |
| 12 Runciman | 27,266 | 27,188 | 27,787 | 27,304 | 26,824 | 27,705 | 27,463 | 17,411 | -36.1 |
| 13 Armley | 20,904 | 21,381 | 20,910 | 19,828 | 19,465 | 20,610 | 13,782 | 11,411 | -45.4 |
| 14 Nut Mountain | 35,441 | 37,887 | 38,281 | 37,846 | 37,819 | 38,725 | 39,841 | 40,168 | +13.3 |
| <i>Villages</i> | | | | | | | | | |
| 15 Eldersley | 34,735 | 37,436 | 39,356 | 40,466 | 32,262 | 30,742 | 32,902 | 34,825 | +0.3 |
| 16 Valparaiso | 52,741 | 51,128 | 51,154 | 49,089 | 46,686 | 49,634 | 50,689 | 46,443 | -11.9 |
| 17 McKague | 22,735 | 23,321 | 22,195 | 21,557 | 21,009 | 20,807 | 21,503 | 18,491 | -18.7 |
| 18 Sylvania | 41,684 | 40,412 | 42,939 | 42,040 | 43,642 | 44,018 | 46,922 | 40,232 | -3.5 |
| 19 Somme | 36,701 | 38,700 | 37,822 | 38,161 | 38,910 | 40,428 | 41,118 | 40,545 | +10.5 |
| 20 Chellan | 33,969 | 36,056 | 36,164 | 34,785 | 32,243 | 34,854 | 36,826 | 37,540 | +10.5 |
| 21 Prairie River | 28,427 | 31,706 | 32,078 | 30,106 | 30,430 | 33,139 | 34,728 | 39,879 | +40.3 |
| 22 Crooked River ^b | 33,332 | 31,057 | 30,767 | 29,281 | 12,085 | 15,251 | 18,595 | 22,230 | -16.1 |
| 23 Carragana | 34,828 | 33,924 | 37,053 | 36,917 | 26,818 | 28,240 | 28,567 | 27,957 | +26.8 |
| 24 Mistatin | 32,343 | 33,525 | 33,770 | 33,270 | 36,296 | 40,493 | 42,730 | 44,160 | +15.6 |
| 25 Weekes | 43,118 | 44,551 | 44,370 | 43,771 | 41,873 | 37,904 | 36,388 | 37,383 | +19.2 |
| 26 Birkdale | 46,724 | 49,604 | 47,574 | 42,649 | 45,136 | 45,947 | 48,159 | 51,415 | +11.8 |
| 27 Aylsham | 60,548 | 64,679 | 63,595 | 62,670 | 60,863 | 46,890 | 50,916 | 52,257 | +8.0 |
| 28 Archerwill | | | | | | 62,682 | 64,192 | 65,376 | |
| <i>Towns</i> | | | | | | | | | |
| 29 Zenon Park | 44,692 | 46,634 | 47,653 | 46,471 | 46,190 | 46,807 | 47,008 | 53,267 | +19.2 |
| 30 Arborfield | 94,808 | 97,323 | 97,063 | 88,889 | 85,174 | 90,547 | 89,603 | 90,025 | -5.0 |
| <i>Greater Towns</i> | | | | | | | | | |
| 31 Porcupine Plain | 55,840 | 59,805 | 59,490 | 57,615 | 59,490 | 64,673 | 65,685 | 66,598 | +19.4 |
| 32 Kelvington | 133,588 | 135,892 | 138,122 | 136,060 | 131,779 | 136,894 | 143,404 | 143,665 | +7.5 |
| 33 Carrot River | 144,064 | 148,352 | 151,288 | 150,862 | 155,136 | 171,496 | 179,963 | 184,566 | +28.1 |
| 34 Tisdale | 76,139 | 76,879 | 78,294 | 76,062 | 74,083 | 79,761 | 80,548 | 94,020 | +23.5 |
| Study Area Total | 1,271,004 | 1,305,739 | 1,312,691 | 1,269,648 | 1,247,981 | 1,318,969 | 1,354,304 | 1,346,295 | +5.9 |

*Storage only.

^aDurum excluded from specified acreage in 1962-63.^bElevator constructed in 1966.

Source: Canadian Wheat Board, Winnipeg.

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72

| | Too Small to Classify | | | Hamlets | | |
|-------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------|
| | 4 Lurgan | 5 New Osgoode | 6 Carlea | 7 Moose Range | 9 Peesane | |
| | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Quota Acres |
| Hercules Durum % of Total | - | - | - | - | - | - |
| Other Durum % of Total | - | - | - | - | - | - |
| All Other Wheat % of Total | 1,175 10.3 | 2,946 15.6 | 1,184 10.9 | 595 8.0 | 1,670 20.4 | 4,758 59.2 |
| Oats % of Total | 554 4.8 | 442 2.3 | 213 2.0 | 315 4.3 | 209 2.5 | 160 2.0 |
| Selected Oats % of Total | - | - | - | - | - | - |
| Barley % of Total | 1,311 11.5 | 2,606 13.8 | 1,311 12.1 | 2,161 29.2 | 901 11.0 | 1,031 12.8 |
| Selected Barley % of Total | - | - | - | - | - | - |
| Rye % of Total | - | - | - | 117 1.6 | - | - |
| Other Rye % of Total | - | - | - | - | - | - |
| Flaxseed % of Total | 76 0.6 | 70 0.4 | 145 1.3 | 595 5.5 | - | - |
| Flaxseed for Crushing % of Total | - | - | - | - | - | - |
| Low Erucic Acid Rape % of Total | 215 1.9 | - | 225 2.1 | 60 0.8 | 100 1.2 | 100 1.3 |
| Other Rapeseed % of Total | 2,374 20.8 | 3,409 18.1 | 2,769 25.6 | 1,264 17.1 | 1,675 20.5 | 1,984 24.7 |
| Misc. Crops % of Total | - | 215 1.1 | - | 143 1.9 | - | - |
| Summer Fallow % of Total | 4,119 36.1 | 6,297 33.4 | 3,870 35.8 | 2,177 29.4 | 2,706 33.1 | - |
| Subtotal % of Total | 11,337 100.0 | 15,985 84.7 | 9,717 89.8 | 6,832 92.3 | 7,261 88.7 | 8,033 100.0 |
| Perennial Forage % of Total | 1,595 14.0 | 2,896 15.3 | 1,105 10.2 | 567 7.7 | 922 11.3 | - |
| TOTAL ACRES ^a % of Total | 11,419 100.0 | 18,881 100.0 | 10,822 100.0 | 7,399 100.0 | 8,183 100.0 | 8,033 100.0 |

See footnotes at end of table

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

| | Hamlets (continued) | | | | | | | | | | | |
|--|-------------------------------|----------------|--|-------------------------------|-----------------|--|-------------------------------|-----------------|--|-------------------------------|-----------------|--|
| | 10 Leacross | | | 11 Clemenceau | | | 12 Runciman | | | 13 Armley | | |
| | Seeded & Summer Acreage | Quota Acres | | Seeded & Summer Acreage | Quota Acres | | Seeded & Summer Acreage | Quota Acres | | Seeded & Summer Acreage | Quota Acres | |
| Hercules Durum % of Total | - | - | | - | - | | - | - | | - | - | |
| Other Durum % of Total | - | - | | - | - | | - | - | | - | - | |
| All Other Wheat % of Total | 956 13.4 | 3,083 44.1 | | 2,347 15.7 | 5,410 36.3 | | 3,432 13.2 | 14,361 56.6 | | 2,132 14.5 | 7,469 51.6 | |
| Oats % of Total | 246 3.5 | 30 0.4 | | 383 2.6 | 639 4.3 | | 573 2.2 | 350 1.4 | | 573 3.9 | 228 1.6 | |
| Selected Oats % of Total | - | 110 | | - | - | | - | - | | - | - | |
| Barley % of Total | 1,060 14.9 | 1,546 22.1 | | 3,195 21.4 | 5,146 34.5 | | 2,905 11.2 | 2,994 11.8 | | 2,190 14.9 | 1,743 12.1 | |
| Selected Barley % of Total | - | 150 2.2 | | - | 50 0.3 | | - | 550 2.1 | | - | - | |
| Rye % of Total | - | - | | 22 0.1 | 22 0.2 | | - | - | | - | - | |
| Other Rye % of Total | - | - | | - | - | | - | - | | - | - | |
| Flaxseed % of Total | 5 0.1 | - | | 130 0.9 | 200 1.3 | | 66 0.3 | 145 0.6 | | 137 0.9 | 354 2.4 | |
| Flaxseed for Crushing % of Total | - | - | | - | - | | - | 300 1.2 | | - | - | |
| Low Erucic Acid Rape % of Total | - | - | | - | - | | 55 0.2 | 145 0.6 | | 45 0.3 | - | |
| Other Rapeseed % of Total | 1,687 23.7 | 2,066 29.6 | | 2,165 14.5 | 3,436 23.1 | | 6,254 24.1 | 6,684 26.3 | | 2,994 20.3 | 4,666 32.3 | |
| Misc. Crops % of Total | - | - | | - | - | | 383 1.5 | - | | - | - | |
| Summer Fallow % of Total | 2,654 37.4 | - | | 5,932 39.7 | - | | 9,144 35.2 | - | | 4,959 33.6 | - | |
| Subtotal % of Total | 6,608 93.0 | 6,985 100.0 | | 14,174 94.9 | 14,903 100.0 | | 22,812 87.9 | 25,384 100.0 | | 13,030 88.4 | 14,460 100.0 | |
| Perennial Forage % of Total | 496 7.0 | - | | 771 5.1 | - | | 3,143 12.1 | - | | 1,706 11.6 | - | |
| TOTAL ACRES ^a % of Total | 7,104 100.0 | 6,985 100.0 | | 14,945 100.0 | 14,903 100.0 | | 25,955 100.0 | 25,384 100.0 | | 14,736 100.0 | 14,460 100.0 | |

(continued)

See footnotes at end of table

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

| | 15 Eldersley | | | | 16 Valparaiso | | | | Villages 17 McKague | | | | 18 Sylvania | | | | 19 Somme | | | |
|--------------------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--|--|
| | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | | |
| Hercules Durum | - | - | - | - | - | - | 260 | 300 | - | - | - | - | - | - | - | - | - | - | | |
| % of Total | - | - | - | - | - | - | 1.2 | 1.5 | - | - | - | - | - | - | - | - | - | - | | |
| Other Durum | - | - | - | 80 | - | - | - | - | - | - | - | - | - | - | 77 | - | 177 | - | | |
| % of Total | - | - | - | 0.2 | - | - | - | - | - | - | - | - | - | - | 0.1 | - | 0.4 | - | | |
| All Other Wheat | 6,898 | 22,884 | 7,278 | 27,356 | 7,278 | 27,356 | 3,212 | 9,763 | 3,212 | 9,763 | 8,174 | 26,796 | 8,174 | 26,796 | 7,042 | 23,008 | 7,042 | 23,008 | | |
| % of Total | 16.4 | 54.5 | 13.0 | 49.6 | 13.0 | 49.6 | 15.3 | 49.9 | 15.3 | 49.9 | 17.5 | 57.6 | 17.5 | 57.6 | 14.9 | 49.9 | 14.9 | 49.9 | | |
| Oats | 1,007 | 246 | 1,059 | 515 | 1,059 | 515 | 1,671 | 1,142 | 1,671 | 1,142 | 2,449 | 935 | 2,449 | 935 | 1,175 | 550 | 1,175 | 550 | | |
| % of Total | 2.4 | 0.6 | 1.9 | 0.9 | 1.9 | 0.9 | 8.0 | 5.9 | 8.0 | 5.9 | 5.3 | 2.0 | 5.3 | 2.0 | 2.5 | 1.2 | 2.5 | 1.2 | | |
| Selected Oats | - | - | - | - | - | - | - | 100 | - | 100 | - | 50 | - | 50 | - | 70 | - | 70 | | |
| % of Total | - | - | - | - | - | - | - | 0.5 | - | 0.5 | - | 0.1 | - | 0.1 | - | 0.2 | - | 0.2 | | |
| Barley | 5,622 | 5,022 | 6,855 | 5,194 | 6,855 | 5,194 | 2,326 | 3,468 | 2,326 | 3,468 | 7,404 | 7,554 | 7,404 | 7,554 | 7,773 | 8,498 | 7,773 | 8,498 | | |
| % of Total | 13.4 | 11.9 | 12.3 | 9.4 | 12.3 | 9.4 | 11.1 | 17.8 | 11.1 | 17.8 | 15.9 | 16.2 | 15.9 | 16.2 | 16.5 | 18.4 | 16.5 | 18.4 | | |
| Selected Barley | - | 800 | - | 1,700 | - | 1,700 | - | 100 | - | 100 | - | 1,100 | - | 1,100 | - | 2,150 | - | 2,150 | | |
| % of Total | - | 1.9 | - | 3.1 | - | 3.1 | - | 0.5 | - | 0.5 | - | 2.4 | - | 2.4 | - | 4.7 | - | 4.7 | | |
| Rye | - | - | 750 | 1,410 | 750 | 1,410 | 40 | 180 | 40 | 180 | 90 | 90 | 90 | 90 | 35 | 50 | 35 | 50 | | |
| % of Total | - | - | 1.3 | 2.6 | 1.3 | 2.6 | 0.2 | 0.9 | 0.2 | 0.9 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Other Rye | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| % of Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Flaxseed | 372 | 371 | 265 | 410 | 265 | 410 | 30 | 50 | 30 | 50 | - | 70 | - | 70 | 527 | 1,032 | 527 | 1,032 | | |
| % of Total | 0.8 | 0.9 | 0.5 | 0.7 | 0.5 | 0.7 | 0.1 | 0.3 | 0.1 | 0.3 | - | 0.2 | - | 0.2 | 1.1 | 2.2 | 1.1 | 2.2 | | |
| Flaxseed for Crushing | - | - | - | - | - | - | - | 100 | - | 100 | - | - | - | - | - | - | - | - | | |
| % of Total | - | - | - | - | - | - | - | 0.5 | - | 0.5 | - | - | - | - | - | - | - | - | | |
| Low Erucic Acid Rape | 410 | 410 | 1,345 | 1,010 | 1,345 | 1,010 | 63 | 63 | 63 | 63 | 245 | 215 | 245 | 215 | 318 | 357 | 318 | 357 | | |
| % of Total | 1.0 | 1.0 | 2.4 | 1.8 | 2.4 | 1.8 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.8 | 0.7 | 0.8 | | |
| Other Rapeseed | 9,235 | 12,245 | 12,537 | 17,497 | 12,537 | 17,497 | 2,901 | 4,288 | 2,901 | 4,288 | 7,905 | 9,680 | 7,905 | 9,680 | 8,289 | 10,196 | 8,289 | 10,196 | | |
| % of Total | 21.9 | 29.2 | 22.5 | 31.7 | 22.5 | 31.7 | 13.9 | 21.9 | 13.9 | 21.9 | 16.9 | 20.8 | 16.9 | 20.8 | 17.6 | 22.1 | 17.6 | 22.1 | | |
| Misc. Crops | 20 | - | 195 | - | 195 | - | 30 | - | 30 | - | 173 | - | 173 | - | - | - | - | - | | |
| % of Total | 0.1 | - | 0.4 | - | 0.4 | - | 0.1 | - | 0.1 | - | 0.4 | - | 0.4 | - | - | - | - | - | | |
| Summer Fallow | 15,519 | - | 20,236 | - | 20,236 | - | 6,657 | - | 6,657 | - | 16,365 | - | 16,365 | - | 18,141 | - | 18,141 | - | | |
| % of Total | 36.8 | - | 36.3 | - | 36.3 | - | 31.8 | - | 31.8 | - | 35.0 | - | 35.0 | - | 38.4 | - | 38.4 | - | | |
| Subtotal | 39,083 | 41,978 | 50,520 | 55,172 | 50,520 | 55,172 | 17,190 | 19,554 | 17,190 | 19,554 | 42,805 | 46,490 | 42,805 | 46,490 | 43,377 | 46,088 | 43,377 | 46,088 | | |
| % of Total | 92.8 | 100.0 | 90.6 | 100.0 | 90.6 | 100.0 | 82.0 | 100.0 | 82.0 | 100.0 | 91.7 | 100.0 | 91.7 | 100.0 | 91.9 | 100.0 | 91.9 | 100.0 | | |
| Perennial Forage | 3,016 | - | 5,258 | - | 5,258 | - | 3,768 | - | 3,768 | - | 3,897 | - | 3,897 | - | 3,806 | - | 3,806 | - | | |
| % of Total | 7.2 | - | 9.4 | - | 9.4 | - | 18.0 | - | 18.0 | - | 8.3 | - | 8.3 | - | 8.1 | - | 8.1 | - | | |
| TOTAL ACRES ^a | 42,099 | 41,978 | 55,778 | 55,172 | 55,778 | 55,172 | 20,958 | 19,554 | 20,958 | 19,554 | 46,702 | 46,490 | 46,702 | 46,490 | 47,183 | 46,088 | 47,183 | 46,088 | | |
| % of Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | |

See footnotes at end of table

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

| | Villages (continued) | | | | | | | | | |
|--------------------------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|----------------|
| | 20 Chelan | | 21 Prairie River | | 22 Crooked River | | 23 Carragana | | 24 Mistatim | |
| | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres |
| Hercules Durum % of Total | - | - | - | - | - | - | - | - | - | - |
| Other Durum | - | - | - | - | - | - | - | - | - | - |
| All Other Wheat % of Total | 9,163 | 23,624 | 8,051 | 21,257 | 4,744 | 15,580 | 5,692 | 17,780 | 7,895 | 22,373 |
| Oats % of Total | 22.6 | 60.6 | 16.7 | 44.3 | 16.6 | 55.6 | 18.4 | 59.5 | 14.3 | 41.5 |
| Selected Oats % of Total | 1,956 | 1,329 | 1,490 | 1,088 | 1,378 | 611 | 1,369 | 635 | 2,453 | 1,658 |
| Barley % of Total | 4.8 | 3.4 | 3.1 | 2.3 | 4.8 | 2.2 | 4.4 | 2.1 | 4.5 | 3.1 |
| Selected Barley % of Total | - | - | - | 70 | - | 20 | - | - | - | - |
| Rye % of Total | - | - | - | 0.1 | - | 0.1 | - | - | - | - |
| Other Rye | 3,017 | 3,621 | 7,512 | 9,970 | 4,032 | 4,123 | 3,466 | 4,615 | 8,624 | 12,775 |
| Flaxseed % of Total | 7.5 | 9.3 | 15.6 | 20.8 | 14.2 | 14.7 | 11.2 | 15.5 | 15.7 | 23.7 |
| Flaxseed for Crushing | - | - | - | 950 | - | 1,050 | - | 100 | - | 1,000 |
| Low Erucic Acid Rape | - | - | - | 2.0 | - | 3.7 | - | 0.3 | - | 1.8 |
| Other Rapeseed % of Total | 663 | 757 | 50 | 30 | - | - | 40 | 40 | - | 20 |
| Misc. Crops % of Total | 1.7 | 1.9 | 0.1 | 0.1 | - | - | 0.1 | 0.1 | - | 0.0 |
| Summer Fallow % of Total | - | - | - | - | - | - | - | - | - | - |
| Subtotal | 133 | 255 | 661 | 886 | 48 | 105 | 259 | 391 | 178 | 350 |
| Perennial Forage % of Total | 0.3 | 0.7 | 1.4 | 1.8 | 0.2 | 0.4 | 0.8 | 1.3 | 0.3 | 0.6 |
| TOTAL ACRES % of Total | - | - | - | - | - | - | - | - | - | - |
| | 135 | 135 | 213 | 75 | 163 | 183 | 329 | 369 | 595 | 585 |
| | 0.3 | 0.3 | 0.4 | 0.1 | 0.6 | 0.7 | 1.1 | 1.2 | 1.1 | 1.1 |
| | 6,246 | 9,147 | 9,824 | 13,664 | 5,335 | 6,338 | 4,518 | 5,968 | 10,083 | 15,189 |
| | 15.4 | 23.4 | 20.4 | 28.5 | 18.7 | 22.6 | 14.6 | 20.0 | 18.3 | 28.2 |
| | 20 | - | 165 | - | 50 | - | 60 | - | 40 | - |
| | 0.1 | - | 0.3 | - | 0.2 | - | 0.2 | - | 0.1 | - |
| | 13,075 | - | 17,491 | - | 9,107 | - | 11,176 | - | 18,590 | - |
| | 32.3 | - | 36.3 | - | 32.0 | - | 36.0 | - | 33.8 | - |
| | 34,408 | 39,018 | 45,457 | 47,990 | 24,857 | 28,010 | 26,909 | 29,898 | 48,458 | 53,950 |
| | 85.0 | 100.0 | 94.3 | 100.0 | 87.3 | 100.0 | 86.8 | 100.0 | 88.1 | 100.0 |
| | 6,080 | - | 2,760 | - | 3,632 | - | 4,106 | - | 6,566 | - |
| | 15.0 | - | 5.7 | - | 12.7 | - | 13.2 | - | 11.9 | - |
| | 40,488 | 39,018 | 48,217 | 47,990 | 28,489 | 28,010 | 31,015 | 29,898 | 55,024 | 53,950 |
| | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

See footnotes at end of table

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

| | Villages (continued) | | | | Towns | | | |
|--------------------------|--------------------------------|-------------|--------------------------------|-------------|--------------------------------|-------------|--------------------------------|-------------|
| | 25 Weeks | | 26 Bjorkdale | | 27 Aylsham | | 28 Archerwill | |
| | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres |
| Hercules Durum | - | - | - | - | - | - | - | - |
| % of Total | - | - | - | - | - | - | - | - |
| Other Durum | - | - | - | - | - | - | - | - |
| % of Total | - | - | - | - | - | - | - | - |
| All Other Wheat | 6,025 | 17,461 | 11,923 | 32,927 | 7,487 | 24,000 | 11,661 | 33,174 |
| % of Total | 16.1 | 46.8 | 21.7 | 61.1 | 12.1 | 39.2 | 15.8 | 46.5 |
| Oats | 1,508 | 1,434 | 2,801 | 1,388 | 1,486 | 1,604 | 4,821 | 4,201 |
| % of Total | 4.0 | 3.8 | 5.1 | 2.6 | 2.4 | 2.6 | 6.5 | 5.9 |
| Selected Oats | - | 292 | - | 55 | - | 40 | - | 1,007 |
| % of Total | - | 0.8 | - | 0.1 | - | 0.1 | - | 1.4 |
| Barley | 7,506 | 9,704 | 3,971 | 5,122 | 10,539 | 12,843 | 8,435 | 11,368 |
| % of Total | 20.0 | 26.0 | 7.2 | 9.5 | 17.1 | 21.0 | 11.4 | 15.9 |
| Selected Barley | - | 1,250 | - | 200 | - | 1,750 | - | 1,900 |
| % of Total | - | 3.3 | - | 0.4 | - | 2.9 | - | 2.7 |
| Rye | - | - | 586 | 799 | 260 | 336 | 203 | 524 |
| % of Total | - | - | 1.1 | 1.5 | 0.4 | 0.6 | 0.3 | 0.7 |
| Other Rye | - | - | - | - | - | - | - | - |
| % of Total | - | - | - | - | - | - | - | - |
| Flaxseed | 303 | 629 | 335 | 529 | 386 | 807 | 315 | 519 |
| % of Total | 0.8 | 1.7 | 0.6 | 1.0 | 0.6 | 1.3 | 0.4 | 0.7 |
| Flaxseed for Crushing | - | - | - | - | - | - | - | - |
| % of Total | - | - | - | - | - | - | - | - |
| Low Erucic Acid Rape | 60 | 100 | 286 | 241 | 959 | 509 | 366 | 316 |
| % of Total | 0.2 | 0.3 | 0.5 | 0.4 | 1.6 | 0.8 | 0.5 | 0.5 |
| Other Rapeseed | 5,591 | 6,439 | 9,470 | 12,591 | 14,090 | 19,284 | 11,378 | 17,936 |
| % of Total | 14.9 | 17.3 | 17.3 | 23.4 | 22.9 | 31.5 | 15.4 | 25.1 |
| Misc. Crops | 136 | - | 30 | - | 845 | - | 279 | - |
| % of Total | 0.4 | - | 0.1 | - | 1.4 | - | 0.4 | - |
| Summer Fallow | 15,127 | - | 18,679 | - | 21,462 | - | 25,915 | - |
| % of Total | 40.3 | - | 34.0 | - | 34.8 | - | 35.1 | - |
| Subtotal | 36,256 | 37,309 | 48,081 | 53,852 | 57,514 | 61,173 | 63,546 | 71,380 |
| % of Total | 96.7 | 100.0 | 87.6 | 100.0 | 93.3 | 100.0 | 86.1 | 100.0 |
| Perennial Forage | 1,238 | - | 6,833 | - | 4,160 | - | 10,299 | - |
| % of Total | 3.3 | - | 12.4 | - | 6.7 | - | 13.9 | - |
| TOTAL ACRES ^a | 37,494 | 37,309 | 54,914 | 53,852 | 61,674 | 61,173 | 73,845 | 71,380 |
| % of Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

See footnotes at end of table

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

| | Towns (continued) | | | Greater Towns | | | | 34 Tisdale | | |
|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------|--------------------------------|-------------|--------------------------------|
| | 30 Arborfield | 31 Porcupine Plain | 32 Kelvington | 33 Carrot River | 34 Tisdale | Seeded & Summer Fallow | Quota Acres | Seeded & Summer Fallow | Quota Acres | Seeded & Summer Fallow |
| | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage |
| Hercules Durum | 100 | - | 261 | - | 261 | - | - | - | - | 60 |
| % of Total | 0.1 | - | 0.2 | - | 0.2 | - | - | - | - | 0.1 |
| Other Durum | - | - | 30 | - | - | 50 | - | - | - | - |
| % of Total | - | - | 0.0 | - | - | 0.0 | - | - | - | - |
| All Other Wheat | 13,741 | 29,398 | 25,084 | 83,903 | 30,126 | 16,019 | 96,196 | 16,019 | 51,608 | 51,608 |
| % of Total | 13.1 | 53.5 | 16.6 | 56.0 | 14.3 | 14.4 | 46.3 | 14.4 | 47.0 | 47.0 |
| Oats | 2,557 | 1,968 | 3,744 | 1,696 | 8,620 | 2,452 | 6,031 | 2,452 | 1,072 | 1,072 |
| % of Total | 2.4 | 3.4 | 2.5 | 1.1 | 4.1 | 2.2 | 2.9 | 2.2 | 1.0 | 1.0 |
| Selected Oats | - | 230 | - | 134 | 70 | - | 0.3 | - | 145 | 145 |
| % of Total | - | 0.4 | - | 0.1 | 0.3 | - | 0.3 | - | 0.1 | 0.1 |
| Barley | 13,720 | 9,809 | 23,524 | 18,982 | 30,686 | 14,086 | 41,144 | 14,086 | 14,753 | 14,753 |
| % of Total | 13.1 | 17.8 | 15.6 | 12.7 | 14.6 | 12.7 | 19.8 | 12.7 | 13.4 | 13.4 |
| Selected Barley | - | 850 | - | 11,800 | 7.9 | - | 1,750 | - | 2,600 | 2,600 |
| % of Total | - | 1.6 | - | 7.9 | 0.8 | - | 0.8 | - | 2.4 | 2.4 |
| Rye | 52 | 183 | 400 | 577 | 3,907 | - | 3,907 | - | - | - |
| % of Total | 0.1 | 0.3 | 0.3 | 0.4 | 1.9 | - | 1.9 | - | - | - |
| Other Rye | - | - | - | - | 65 | - | 65 | - | - | - |
| % of Total | - | - | - | - | 0.0 | - | 0.0 | - | - | - |
| Flaxseed | 662 | 550 | 655 | 1,235 | 2,393 | 390 | 3,609 | 390 | 947 | 947 |
| % of Total | 0.6 | 1.0 | 0.4 | 0.8 | 1.1 | 0.4 | 1.7 | 0.4 | 0.9 | 0.9 |
| Flaxseed for Crushing | - | - | - | - | - | - | - | - | - | - |
| % of Total | - | - | - | - | - | - | - | - | - | - |
| Low Erucic Acid Rape | 1,201 | 260 | 1,465 | 1,109 | 2,185 | 1,929 | 1,534 | 1,929 | 1,560 | 1,560 |
| % of Total | 1.1 | 0.5 | 1.0 | 0.7 | 1.0 | 1.7 | 0.7 | 1.7 | 1.4 | 1.4 |
| Other Rapeseed | 21,466 | 12,722 | 27,251 | 30,188 | 37,992 | 25,394 | 53,194 | 25,394 | 36,997 | 36,997 |
| % of Total | 20.5 | 23.1 | 18.0 | 20.1 | 18.1 | 22.9 | 25.6 | 22.9 | 33.7 | 33.7 |
| Misc. Crops | 634 | - | 370 | - | 1,367 | 191 | - | 191 | - | - |
| % of Total | 0.6 | - | 0.2 | - | 0.7 | 0.2 | - | 0.2 | - | - |
| Summer Fallow | 29,024 | 19,093 | 54,823 | - | 75,842 | 39,094 | - | 39,094 | - | - |
| % of Total | 27.7 | 33.4 | 36.3 | - | 36.1 | 35.2 | - | 35.2 | - | - |
| Subtotal | 83,157 | 54,986 | 137,607 | 149,885 | 190,936 | 99,555 | 207,500 | 99,555 | 109,742 | 109,742 |
| Perennial Forage | 21,673 | 100.0 | 91.1 | 100.0 | 90.8 | 89.7 | 100.0 | 89.7 | 100.0 | 100.0 |
| % of Total | 20.7 | - | 8.9 | - | 9.2 | - | - | - | - | - |
| TOTAL ACRES ^a | 104,830 | 54,986 | 151,103 | 149,885 | 210,353 | 111,001 | 207,500 | 111,001 | 109,742 | 109,742 |
| % of Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

See footnotes at end of table

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (concluded)

| | Study Area Total | | Sask. Total | |
|-------------------------------------|--------------------------------------|--------------------|--------------------------------------|---------------------|
| | Seeded & Summer Fallow Acreage | Quota Acres | Seeded & Summer Fallow Acreage | Quota Acres |
| Hercules Durum % of Total | 676 0.1 | 781 0.1 | 622,939 1.3 | 590,476 1.3 |
| Other Durum % of Total | 480 0.0 | 792 0.1 | 1,286,793 2.8 | 3,067,045 6.6 |
| All Other Wheat % of Total | 232,081 15.5 | 723,523 49.5 | 11,722,928 25.0 | 30,679,714 66.3 |
| Oats % of Total | 52,015 3.5 | 30,999 2.1 | 2,256,816 4.8 | 721,011 1.6 |
| Selected Oats % of Total | - | 2,623 0.2 | - | 199,139 0.4 |
| Barley % of Total | 207,882 13.9 | 242,700 16.6 | 5,911,806 12.6 | 4,516,871 9.7 |
| Selected Barley % of Total | - | 40,700 2.8 | - | 1,687,420 3.6 |
| Rye % of Total | 5,473 0.4 | 9,856 0.7 | 553,540 1.2 | 518,274 1.1 |
| Other Rye % of Total | - | 65 0.0 | - | 41,442 0.1 |
| Flaxseed % of Total | 9,233 0.6 | 16,444 1.1 | 943,274 2.0 | 999,292 2.2 |
| Flaxseed for Crushing % of Total | - | 400 0.0 | - | 29,883 0.1 |
| Low Erucic Acid Rape % of Total | 13,925 0.9 | 10,644 0.7 | 342,957 0.7 | 314,930 0.7 |
| Other Rapeseed % of Total | 280,441 18.8 | 380,627 26.1 | 2,491,714 5.3 | 2,936,822 6.3 |
| Misc. Crops % of Total | 5,768 0.4 | - | 329,088 0.7 | - |
| Summer Fallow % of Total | 517,718 34.7 | - | 17,363,690 37.0 | - |
| Subtotal % of Total | 1,325,692 88.8 | 1,460,154 100.0 | 43,825,545 93.4 | 46,302,319 100.0 |
| Perennial Forage % of Total | 167,208 11.2 | - | 3,078,976 6.6 | - |
| TOTAL ACRES % of Total | 1,492,900 100.0 | 1,460,154 100.0 | 46,904,521 100.0 | 46,302,319 100.0 |

^a Total seeded and summer fallow acreage equals total improved acreage.

Source: Canadian Wheat Board, Winnipeg.

Acres Devoted to Canadian Wheat Board Grains

An accepted division of crops separates wheat, durum, oats and barley, the Wheat Board grains, from other cereals and oilseeds. Tables 3.10A and 3.10B indicate the degree to which farmers in the hinterland of each delivery point rely on the Wheat Board to market their crops. These tables present a time series of seeded acres, 1962-63 to 1970-71, and quota acres, 1971-72, devoted to Board grains. Percentages of seeded or quota acres to total specified or quota acres are also given.

From 1962-63 to 1969-70 the percentages of specified acres in Board grains were fairly uniform. For the study area the percentage of Board grain acres to total specified acres ranged from a low of 45.6 percent to a high of 52.9 percent (Table 3.10A).

In 1970-71, as Table 3.10B shows, the acres of Board grains dropped to 28.2 percent of total acres, reflecting the reduced number of acres of cropland in the area that year. In contrast, most 1971-72 percentages of seeded acres at delivery points were in the 70 to 80 percent range. These percentages as well as the 71.4 percentage for the entire study area were much higher than corresponding figures for any previous year. It will be understood, however, that the data for quota acres in Table 3.10B are not fully comparable with the data on specified acres in Table 3.10A.

TABLE 3.10A NUMBER AND PERCENT OF SPECIFIED ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS, 1962-63 TO 1969-70^a

| Delivery Point | 1962-63 ^b | 1963-64 | 1964-65 | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 |
|------------------------------|------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | acres | % | acres | % | acres | % | acres | % |
| <i>Too Small to Classify</i> | | | | | | | | |
| 1 Clashmoor | 6,013 | 52.2 | 4,903 | 56.9 | 4,335 | 52.5 | 3,447 | 50.5 |
| 2 Veillardville | 5,129 | 47.3 | 4,748 | 46.5 | 4,280 | 45.0 | 3,335 | 35.2 |
| 3 Goltburn | 5,113 | 57.2 | 5,586 | 54.5 | 4,535 | 51.4 | 3,855 | 52.9 |
| 4 Lurgan | 8,567 | 49.9 | 9,409 | 49.8 | 9,282 | 48.7 | 7,737 | 50.9 |
| 5 New Osgoode | 11,630 | 54.0 | 11,541 | 50.5 | 11,890 | 51.4 | 11,559 | 54.1 |
| <i>Hamlets</i> | | | | | | | | |
| 6 Carlea | 8,155 | 46.5 | 8,314 | 50.1 | 5,859 | 44.2 | 4,833 | 44.8 |
| 7 Moose Range | 7,551 | 50.7 | 7,843 | 47.7 | 8,747 | 50.5 | 6,147 | 51.0 |
| 8 Usherville | * | | * | | * | | * | |
| 9 Peesane | 4,476 | 52.8 | 4,552 | 54.4 | 4,321 | 52.6 | 4,280 | 49.1 |
| 10 Leacross | 6,639 | 53.0 | 6,798 | 52.5 | 6,397 | 49.5 | 6,152 | 49.6 |
| 11 Clenenceau | 7,753 | 59.8 | 8,035 | 62.1 | 8,271 | 57.0 | 7,252 | 52.6 |
| 12 Runciman | 13,836 | 50.7 | 13,034 | 47.9 | 12,675 | 45.6 | 12,928 | 47.3 |
| 13 Armley | 10,955 | 52.4 | 11,592 | 54.2 | 10,443 | 49.9 | 9,970 | 51.2 |
| 14 Nut Mountain | 16,901 | 47.7 | 18,235 | 48.1 | 18,578 | 48.5 | 18,300 | 48.4 |
| <i>Villages</i> | | | | | | | | |
| 15 Eldersley | 19,421 | 55.9 | 19,649 | 52.5 | 21,061 | 53.5 | 21,116 | 52.2 |
| 16 Valparaiso | 27,771 | 52.7 | 26,564 | 52.0 | 26,328 | 51.5 | 25,689 | 52.3 |
| 17 McKague | 11,890 | 52.3 | 12,522 | 53.7 | 11,157 | 50.3 | 8,811 | 40.9 |
| 18 Sylviaia | 23,944 | 57.4 | 21,992 | 54.4 | 22,593 | 52.6 | 21,288 | 50.6 |
| 19 Somme | 20,863 | 56.8 | 22,289 | 57.6 | 21,180 | 56.0 | 20,758 | 54.4 |
| 20 Chellan | 18,207 | 53.6 | 18,825 | 52.2 | 18,208 | 50.3 | 16,371 | 47.1 |
| 21 Prairie River | 16,299 | 57.3 | 19,119 | 60.3 | 17,994 | 56.1 | 15,019 | 49.9 |
| 22 Crooked River | Elevator constructed in 1966 | | | | | | | |
| 23 Carragana | 18,073 | 54.2 | 17,192 | 55.4 | 16,772 | 54.5 | 14,251 | 48.7 |
| 24 Mistatim | 18,760 | 53.9 | 17,986 | 53.0 | 18,832 | 50.8 | 15,765 | 42.7 |
| 25 Weekes | 17,609 | 54.4 | 18,120 | 54.0 | 17,797 | 52.7 | 14,741 | 44.3 |
| 26 Bjorkdale | 22,332 | 51.8 | 22,722 | 51.0 | 22,732 | 51.2 | 20,132 | 46.0 |
| 27 Aylsham | 22,605 | 48.4 | 25,798 | 52.0 | 24,738 | 52.0 | 21,084 | 49.4 |
| 28 Archerwill | 31,046 | 51.3 | 33,358 | 51.6 | 32,648 | 51.3 | 27,580 | 44.0 |
| <i>Towns</i> | | | | | | | | |
| 29 Zenon Park | 25,151 | 56.3 | 25,752 | 55.2 | 26,286 | 55.2 | 25,036 | 53.9 |
| 30 Arborfield | 49,455 | 52.2 | 49,370 | 50.7 | 49,996 | 51.5 | 44,588 | 50.2 |
| <i>Greater Towns</i> | | | | | | | | |
| 31 Porcupine Plain | 28,172 | 50.5 | 31,203 | 52.2 | 29,213 | 49.1 | 25,866 | 44.9 |
| 32 Kelvington | 69,982 | 52.4 | 72,700 | 53.5 | 74,181 | 53.7 | 77,800 | 57.2 |
| 33 Carrot River | 72,287 | 50.2 | 74,929 | 50.5 | 74,510 | 49.3 | 67,332 | 44.6 |
| 34 Tisdale | 42,152 | 55.4 | 40,822 | 53.1 | 40,800 | 52.1 | 40,012 | 52.6 |
| Study Area Total | 668,737 | 52.1 | 685,582 | 52.5 | 676,639 | 51.5 | 625,065 | 49.2 |

* Storage only.

^aWheat Board Grains are wheat, durum, oats and barley.

^bDurum excluded from Wheat Board Grains in 1962-63.

Source: Canadian Wheat Board, Winnipeg.

TABLE 3.10B NUMBER AND PERCENT OF QUOTA ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS, 1970-71 AND 1971-72

| Delivery Point | 1970-71 ^a | | 1971-72 ^b | |
|------------------------------|---------------------------|----------------------|-----------------------------------|------------------------|
| | Seeded Acres ^c | Percent ^d | Assigned Quota Acres ^e | % of Total Quota Acres |
| <i>Too Small to Classify</i> | | | | |
| 1 Clashmoor | Closed | - | - | - |
| 2 Veillardville | Closed | - | - | - |
| 3 Golburn | Closed | - | - | - |
| 4 Lurgan | 2,446 | 23.0 | 8,488 | 74.9 |
| 5 New Osgoode | 4,552 | 30.0 | 13,074 | 72.1 |
| <i>Hamlets</i> | | | | |
| 6 Carlea | 1,434 | 20.8 | 6,361 | 59.0 |
| 7 Moose Range | 2,790 | 36.5 | 5,160 | 69.7 |
| 8 Usherville | Storage only | | Closed | - |
| 9 Peesane | 2,059 | 29.1 | 5,949 | 74.1 |
| 10 Leacross | 1,596 | 35.1 | 4,919 | 70.4 |
| 11 Clemenceau | 4,206 | 32.8 | 11,245 | 75.5 |
| 12 Runciman | 4,063 | 24.5 | 18,255 | 71.9 |
| 13 Armley | 3,292 | 29.6 | 9,440 | 65.3 |
| 14 Nut Mountain | 9,215 | 25.9 | 34,036 | 79.4 |
| <i>Villages</i> | | | | |
| 15 Eldersley | 9,321 | 31.3 | 28,952 | 69.0 |
| 16 Valparaiso | 9,475 | 24.8 | 34,845 | 63.2 |
| 17 McKague | 5,105 | 31.2 | 14,873 | 76.1 |
| 18 Sylvania | 12,322 | 35.2 | 36,435 | 78.4 |
| 19 Somme | 10,695 | 31.6 | 34,453 | 74.8 |
| 20 Chelan | 9,083 | 26.5 | 28,724 | 73.6 |
| 21 Prairie River | 12,241 | 34.8 | 33,335 | 69.5 |
| 22 Crooked River | 5,257 | 28.1 | 21,384 | 76.3 |
| 23 Carragana | 7,500 | 28.8 | 23,130 | 77.4 |
| 24 Mistatim | 11,827 | 27.3 | 37,806 | 70.1 |
| 25 Weekes | 10,747 | 34.3 | 30,141 | 80.8 |
| 26 Bjorkdale | 12,793 | 27.7 | 39,692 | 73.7 |
| 27 Aylsham | 12,013 | 27.5 | 40,237 | 65.8 |
| 28 Archerwill | 17,522 | 28.9 | 52,085 | 73.0 |
| <i>Towns</i> | | | | |
| 29 Zenon Park | 9,542 | 21.2 | 33,134 | 69.1 |
| 30 Arborfield | 20,541 | 26.9 | 62,489 | 63.8 |
| <i>Greater Towns</i> | | | | |
| 31 Porcupine Plain | 13,215 | 24.1 | 41,271 | 75.1 |
| 32 Kelvington | 33,820 | 28.1 | 116,776 | 77.9 |

See footnotes at end of table.

(continued)

TABLE 3.10B NUMBER AND PERCENT OF QUOTA ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS, 1970-71 AND 1971-72 (concluded)

| Delivery Point | 1970-71 ^a | | 1971-72 ^b | |
|------------------|---------------------------|----------------------|-----------------------------------|------------------------|
| | Seeded Acres ^c | Percent ^d | Assigned Quota Acres ^e | % of Total Quota Acres |
| 33 Carrot River | 44,603 | 28.4 | 145,191 | 70.0 |
| 34 Tisdale | 24,388 | 27.5 | 70,238 | 64.0 |
| Study Area Total | 327,663 | 28.2 | 1,042,118 | 71.4 |

^aCalculated from Table 2.7.

^bCalculated from Table 3.9

^cAcres seeded to CWB grains of wheat, durum, oats and barley.

^dCWB grains acreage as a percent of total acres devoted to CWB grains plus rye, summer fallow and forage crops (i.e., same composition as "specified acres" in previous years).

^eQuota acres assigned to CWB grains of wheat, durum, oats and barley.

Quotas Required to Fill Elevator Storage Capacity

Table 3.11 shows the relationship between elevator storage capacity and quota acres for the 1969-70 and 1971-72 crop years. For 1969-70 the quota acreage is simply the specified acreage; for 1971-72 the quota acreage is the assigned acreage as explained in the commentary for Table 3.8. The ratio of bushel capacity to quota acres represents the number of quotas in bushels per acre that are required to fill an empty delivery point. As quota acres increase relative to storage capacity, the number of quotas needed, decreases and vice versa. The lower the ratio, the greater is the demand for space at a delivery point.

There does not appear to be any correlation between size of community and ratio nor any significant change in ratios between the two years. In 1969-70 the ratio varied from a low of 1.8 at Clemenceau to a high of 10.1 at Aylsham. In 1971-72 the range was from 1.7 at Clemenceau to 12.4 at Moose Range. The average number of general quotas required to fill capacity in the study area was 5.8 in 1969-70. The median number was 5.6 in 1969-70 and 5.25 in 1971-72. Thus, assuming zero inventory and no outward shipments, about half of the delivery points could accommodate a 5.6 bushel general quota in 1969-70 and about half could not. For example: Aylsham would be able to hold only half of a 5.6 bushel quota. To the extent that the Canadian Wheat Board seeks to equalize quota levels among producers, delivery points with a low capacity-to-quota acres ratio will, correspondingly, maintain a higher throughput ratio¹ than those points with a high capacity-to-quota acres ratio.

Table 3.11 also shows the approximate number of railway boxcars required at each delivery point to transport a one bushel quota. Since the number of boxcars needed to move a one bushel quota depends directly on the number of quota acres which are usually proportionate to the size of a community, it generally follows that the required number of boxcars increases with the size of the delivery point. The range was from three boxcars at Golburn to 93 boxcars at Carrot River in 1969-70. In all it took 674 boxcars to move a general one bushel quota out of the study area.

Assuming that the supply of boxcars at any point in time is limited, it may be said that a point like Valparaiso is disadvantaged relative to a point like Crooked River. Valparaiso requires 24 boxcars to move a one bushel quota and can store 6.4 bushel quotas; whereas Crooked River requires 12 boxcars to move a one bushel quota and can store 9.7 bushel quotas.

¹The throughput ratio is the total bushel receipts of a delivery point in one year divided by the total bushel storage capacity. See Table 3.7.

TABLE 3.11 ELEVATOR CAPACITY VERSUS QUOTA ACRES AND NUMBER OF BOXCARS REQUIRED TO MOVE ONE BUSHEL PER QUOTA ACRE BY DELIVERY POINT

| Delivery Point | Elevator Bushel Capacity Aug. 1/69 | Quota Acres 1969-70 ^a | Ratio of Bushel Capacity to Quota Acres, 1969-70 | No. of Boxcars to Move One Bushel Per Quota Acre, 1969-70 ^b | Ratio of Bushel Capacity to Quota Acres, 1971-72 |
|------------------------------|---|--|---|---|---|
| <i>Too Small to Classify</i> | | | | | |
| 1 Clashmoor | Closed | | | | |
| 2 Veillardville | Closed | | | | |
| 3 Golburn | 53,000 | 5,378 | 9.9 | 3 | Closed |
| 4 Lurgan | 99,000 | 13,240 | 7.5 | 7 | 8.7 |
| 5 New Osgoode | 77,000 | 19,716 | 4.0 | 10 | 4.2 |
| <i>Hamlets</i> | | | | | |
| 6 Carlea | 57,000 | 9,722 | 5.9 | 5 | 5.3 |
| 7 Moose Range | 92,000 | 9,343 | 9.8 | 5 | 12.4 |
| 8 Usherville | 27,000 | Storage only | | | |
| 9 Peesane | 28,000 | 8,255 | 3.4 | 5 | 3.5 |
| 10 Leacross | 54,000 | 7,001 | 7.7 | 4 | 7.7 |
| 11 Clemenceau | 25,000 | 13,676 | 1.8 | 7 | 1.7 |
| 12 Runciman | 142,000 | 17,411 | 8.2 | 9 | 5.6 |
| 13 Armley | 107,000 | 11,411 | 9.4 | 6 | 7.4 |
| 14 Nut Mountain | 223,600 | 40,168 | 5.6 | 21 | 5.2 |
| <i>Villages</i> | | | | | |
| 15 Eldersley | 163,000 | 34,825 | 4.9 | 18 | 3.8 |
| 16 Valparaiso | 296,600 | 46,443 | 6.4 | 24 | 5.4 |
| 17 McKague | 51,000 | 18,491 | 2.8 | 10 | 2.6 |
| 18 Sylvania | 221,000 | 40,232 | 5.5 | 21 | 4.8 |
| 19 Somme | 161,000 | 40,545 | 4.0 | 21 | 3.5 |
| 20 Chelan | 118,000 | 37,540 | 3.1 | 19 | 3.0 |
| 21 Prairie River | 187,000 | 39,879 | 4.7 | 20 | 3.9 |
| 22 Crooked River | 215,000 | 22,230 | 9.7 | 12 | 7.7 |
| 23 Carragana | 122,100 | 27,957 | 4.4 | 14 | 4.1 |
| 24 Mistatim | 320,000 | 44,160 | 7.2 | 23 | 5.9 |
| 25 Weekes | 186,000 | 37,383 | 5.0 | 19 | 5.0 |
| 26 Bjorkdale | 169,000 | 51,415 | 3.3 | 26 | 3.1 |
| 27 Aylsham | 526,000 | 52,257 | 10.1 | 27 | 8.6 |
| 28 Archerwill | 386,000 | 65,376 | 6.0 | 33 | 5.4 |
| <i>Towns</i> | | | | | |
| 29 Zenon Park | 275,000 | 53,267 | 5.2 | 27 | 5.7 |
| 30 Arborfield | 643,000 | 90,025 | 7.1 | 45 | 6.6 |
| <i>Greater Towns</i> | | | | | |
| 31 Porcupine Plain | 218,100 | 66,698 | 3.3 | 34 | 3.9 |
| 32 Kelvington | 669,000 | 143,665 | 4.7 | 72 | 4.5 |
| 33 Carrot River | 1,345,000 | 184,566 | 7.3 | 93 | 6.5 |
| 34 Tisdale | 594,000 | 94,020 | 6.3 | 47 | 5.4 |
| Study Area Total | 7,850,400 | 1,346,295 | 5.8 | 674 | 5.4 |

^aSame as specified acres, Table 2.6.

^bAssume 2,000 bushels per boxcar.

Number of Boxcars Per Shunt That Can Be Loaded

The number of boxcars which an elevator operator can load in one group is limited by the length of the rail siding and by the location of the elevator on the siding. Although a siding may accommodate as many as twenty boxcars, perhaps only five or six cars can be loaded for collection by a train at one call. Both the number of car lengths from the spout of an elevator belonging to one company to the spout of a neighboring elevator belonging to another company and the number of car lengths to the ends of the siding determine how many boxcars can be loaded per shunt.

Data for each delivery point and for each elevator company are given in Table 3.12. The number of boxcars per delivery point usually increases along with the size of the community, but considerable variation exists. The range in the number of boxcars per shunt is from four at Usherville, Peesane and Clemenceau to 29 at Carrot River.

In a comparison of elevator capabilities at Valparaiso and New Osgoode (Tables 3.11 and 3.12), Valparaiso requires 24 cars to move a one bushel quota and is able to load 15 boxcars per shunt; whereas New Osgoode requires 10 boxcars to move a one bushel quota and can load 26 boxcars per shunt. New Osgoode has a clear advantage over Valparaiso.

TABLE 3.12 MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1969-70

| Delivery Point | Number of Boxcars per Point | Elevator Companies | Number of Boxcars per Elevator Co. |
|------------------------------|-----------------------------------|--|--|
| <i>Too Small to Classify</i> | | | |
| 3 Golburn | 6 | C.P. Saskatchewan Wheat Pool | 6 |
| 4 Lurgan | 9 | C.P. National Grain Saskatchewan Wheat Pool | 3 6 |
| 5 New Osgoode | 26 | C.N. Saskatchewan Wheat Pool United Grain Growers | 4 22 |
| <i>Hamlets</i> | | | |
| 6 Carlea | 5 | C.N. Saskatchewan Wheat Pool | 5 |
| 7 Moose Range | 5 | C.N. Federal Grain 1 + 2 | 5 |
| 8 Usherville | 4 | C.N. Federal Grain | 4 |
| 9 Peesane | 4 | C.N. Saskatchewan Wheat Pool | 4 |
| 10 Leacross | 6 | C.P. Saskatchewan Wheat Pool | 6 |
| 11 Clemenceau | 4 | C.N. Federal Grain | 4 |
| 12 Runciman | 16 | C.P. National Grain Saskatchewan Wheat Pool | 8 8 |
| 13 Armley | 18 | C.P. Federal Grain | 18 |
| 14 Nut Mountain | 20 | C.N. Saskatchewan Wheat Pool A + B United Grain Growers 1 + 2 | 8 12 |
| <i>Villages</i> | | | |
| 15 Eldersley | 12 | C.N. Pioneer Grain Saskatchewan Wheat Pool | 8 4 |
| 16 Valparaiso | 15 | C.N. Federal Grain National Grain Saskatchewan Wheat Pool | 5 5 5 |
| 17 McKague | 10 | C.P. Saskatchewan Wheat Pool | 10 |
| 18 Sylvania | 16 | C.P. Pioneer Grain 1 + 2 Saskatchewan Wheat Pool | 8 8 |
| 19 Somme | 23 | C.N. Federal Grain Saskatchewan Wheat Pool | 5 18 |

(continued)

TABLE 3.12 MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1969-70 (continued)

| Delivery Point | Number of Boxcars per Point | Elevator Companies | Number of Boxcars per Elevator Co. |
|------------------|-----------------------------------|------------------------------------|--|
| 20 Chelan | 9 | C.N. Saskatchewan Wheat Pool A + B | 9 |
| 21 Prairie River | 10 | C.N. Federal Grain | 4 |
| | | Saskatchewan Wheat Pool | 6 |
| 22 Crooked River | 6 | C.N. Pioneer Grain | 6 |
| 23 Carragana | 14 | C.N. Saskatchewan Wheat Pool A + B | 14 |
| 24 Mistatim | 15 | C.N. Pioneer Grain | 5 |
| | | Saskatchewan Wheat Pool | 10 |
| 25 Weekes | 8 | C.N. Federal Grain | 4 |
| | | Saskatchewan Wheat Pool | 4 |
| 26 Bjorkdale | 8 | C.N. Federal Grain | 4 |
| | | Saskatchewan Wheat Pool | 4 |
| 27 Aylsham | 16 | C.N. Federal Grain | 4 |
| | | Pioneer Grain | 4 |
| | | Saskatchewan Wheat Pool | 4 |
| | | United Grain Growers | 4 |
| 28 Archerwill | 8 | C.P. Federal Grain | 2 |
| | | Saskatchewan Wheat Pool | 3 |
| | | United Grain Growers | 3 |
| <i>Towns</i> | | | |
| 29 Zenon Park | 18 | C.N. Pioneer Grain | 4 |
| | | Saskatchewan Wheat Pool | 10 |
| | | United Grain Growers | 4 |
| 30 Arborfield | 19 | C.N. Saskatchewan Wheat Pool | 4 |
| | | National Grain | 3 |
| | | Pioneer Grain | 4 |
| | | United Grain Growers 1 + 2 | 8 |

(continued)

TABLE 3.12 MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1969-70 (concluded)

| Delivery Point | Number of Boxcars per Point | Elevator Companies | Number of Boxcars per Elevator Co. |
|----------------------|-----------------------------------|--------------------------------------|--|
| <i>Greater Towns</i> | | | |
| 31 Porcupine Plain | 12 | C.N. Federal Grain | 4 |
| | | Saskatchewan Wheat Pool | 4 |
| | | United Grain Growers | 4 |
| 32 Kelvington | 12 | C.N. Federal Grain 1 + 2 | 4 |
| | | Saskatchewan Wheat Pool A, B + C | 6 |
| | | United Grain Growers | 2 |
| 33 Carrot River | 29 | C.N. Federal Grain | 5 |
| | | Pioneer Grain 1 + 2 | 8 |
| | | Saskatchewan Wheat Pool A + B | 8 |
| | | United Grain Growers 1 + 2 | 8 |
| 34 Tisdale | 20 | C.N. Federal Grain | 4 |
| | | C.N. Saskatchewan Wheat Pool | 4 |
| | | C.P./C.N. United Grain Growers 1 + 2 | 12 |

Source: Canadian Grain Commission, Winnipeg.

Block Loading System for Grain

A new system of issuing orders and allocating boxcars called the Canadian Wheat Board Block Loading System came into effect at the beginning of the 1969-70 crop year. The blocks consist of grain delivery points situated in specified groups of contiguous railway subdivisions, the points of one railway company being kept separate from those of the other railway company.

Improved communication between the Board and the elevator operators enables the Board to know the kinds, grades and quantities of grain at delivery points in each block. With this information the Board issues shipping orders to the appropriate elevator companies. These firms then allocate boxcars to elevators in the block for loading the particular grains that the Board wants in forward positions.

Table 3.13 groups the delivery points of the study area within their respective loading blocks. The names of the railway subdivisions and the number of cars that can be loaded at one time at each point are also given.

TABLE 3.13 BLOCK LOADING SYSTEM FOR GRAIN IN THE STUDY AREA

| Shipping Block & Delivery Points | Railway Subdivision | Number of Boxcars Per Point |
|---|------------------------|--------------------------------|
| <i>Prince Albert East Block No. 23 (C.N.)</i> | | |
| 5 New Osgoode | Arborfield | 26 |
| 6 Carlea | Brooksby | 5 |
| 7 Moose Range | Brooksby | 5 |
| 9 Peesane | Tisdale | 4 |
| 15 Eldersley | Tisdale | 12 |
| 16 Valparaiso | Tisdale | 15 |
| 19 Somme | Chelan | 23 |
| 20 Chelan | Chelan | 9 |
| 21 Prairie River | Tisdale | 10 |
| 22 Crooked River | Tisdale | 6 |
| 23 Carragana | Chelan | 14 |
| 24 Mistatim | Tisdale | 15 |
| 25 Weekes | Chelan | 8 |
| 26 Bjorkdale | Chelan | 8 |
| 27 Aylsham | Brooksby | 16 |
| 29 Zenon Park | Arborfield | 18 |
| 30 Arborfield | Arborfield | 19 |
| 31 Porcupine Plain | Chelan | 12 |
| 33 Carrot River | Brooksby | 29 |
| 34 Tisdale | Tisdale | 12 |
| <i>Bredenbury Block No. 74 (C.P.)</i> | | |
| 3 Golburn | Tisdale | 6 |
| 4 Lurgan | Tisdale | 9 |
| 10 Leacross | Tisdale | 6 |
| 12 Runciman | Tisdale | 16 |
| 13 Armley | Tisdale | 18 |
| 17 McKague | Tisdale | 10 |
| 18 Sylvania | Tisdale | 16 |
| 28 Archerwill | Tisdale | 8 |
| 34 Tisdale | Tisdale | 8 |
| <i>Kamsack Block No. 15 (C.N.)</i> | | |
| 8 Usherville | Assiniboine | 4 |
| 11 Clemenceau | Assiniboine | 4 |
| 14 Nut Mountain | Preeceville | 20 |
| 32 Kelvington | Preeceville | 12 |

Source: Canadian Grain Commission, Winnipeg.

Farm Trucks

Table 3.14 presents information on the number, size and age of farm trucks registered in the Tisdale study region. Although it is difficult to translate gross vehicle weights into ton capacities, trucks in the 0-6,000 pound group represent half-ton trucks and trucks at the upper end of the scale, about 21,000 pounds and over, represent three-ton and four-ton trucks.

A total of 3,821 farm trucks were matched with 2,577 permit holders in the study area.¹ Over half, 55.7 percent, of the trucks were in the two smallest size-groups. The average size-group was 11,001-13,000 pounds. As some 50 percent of the trucks were made prior to 1960-61, they were over ten years old. The Canadian Transport Commission estimated that truck ownership was as follows:

| <u>No. of Permit Holders</u> | <u>No. of Trucks Owned</u> |
|------------------------------|----------------------------|
| 1,549 | 1 |
| 847 | 2 |
| 150 | 3 |
| 28 | 4 |
| 3 | 5 or more |

¹This accounted for 76.6 percent of the 3,366 permits issued in 1970-71, Table 3.2.

TABLE 3.14 ESTIMATED NUMBER OF FARM TRUCKS BY SIZE AND MODEL YEAR IN THE STUDY AREA, 1970^a

| Size of Truck (Gross Vehicle Weight) | Model Year | | | | | | | | | | | | | | | | | | | Total | Percent |
|---|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|---------|
| | Up 1945 | 1946 to 1947 | 1948 to 1949 | 1950 to 1951 | 1952 to 1953 | 1954 to 1955 | 1956 to 1957 | 1958 to 1959 | 1959 to 1960 | 1960 to 1961 | 1961 to 1962 | 1962 to 1963 | 1963 to 1964 | 1964 to 1965 | 1965 to 1966 | 1966 to 1967 | 1967 to 1968 | 1968 to 1969 | 1969 to 1970 | | |
| - lbs. - | - number of trucks - | | | | | | | | | | | | | | | | | | | | |
| 0 - 6,000 | 11 | 13 | 18 | 62 | 72 | 36 | 47 | 33 | 50 | 48 | 33 | 35 | 59 | 78 | 81 | 96 | 82 | 82 | 89 | 1,025 | 26.8 |
| 6,001 - 9,000 | 6 | 10 | 41 | 76 | 90 | 35 | 39 | 23 | 36 | 38 | 42 | 43 | 52 | 84 | 92 | 96 | 116 | 80 | 104 | 1,103 | 28.9 |
| 9,001 - 11,000 | 8 | 7 | 85 | 84 | 71 | 14 | 8 | 10 | 9 | 7 | 8 | 5 | 7 | 11 | 9 | 5 | 4 | 4 | 7 | 363 | 9.5 |
| 11,001 - 13,000 | 3 | 7 | 39 | 50 | 52 | 11 | 6 | 2 | 6 | 5 | 2 | 6 | 8 | 2 | 8 | 6 | 2 | 3 | 1 | 219 | 5.7 |
| 13,001 - 15,000 | 1 | 4 | 16 | 21 | 16 | 2 | 1 | 4 | 2 | 7 | 4 | 2 | 6 | 5 | 10 | 7 | 3 | | 1 | 112 | 2.9 |
| 15,001 - 17,000 | 3 | 8 | 8 | 15 | 33 | 5 | 5 | 2 | 7 | 9 | 5 | 1 | 6 | 9 | 1 | 2 | 6 | 2 | 1 | 128 | 3.3 |
| 17,001 - 19,000 | 6 | 10 | 9 | 9 | 17 | 4 | 2 | 3 | 2 | | 1 | 3 | 7 | 2 | 3 | 3 | 1 | 4 | 1 | 87 | 2.3 |
| 19,001 - 21,000 | 14 | 32 | 33 | 22 | 38 | 8 | 5 | 5 | 6 | 6 | 2 | 2 | 7 | 8 | 3 | 5 | | | 2 | 198 | 5.2 |
| 21,001 - 23,000 | 1 | 11 | 13 | 5 | 7 | 4 | 2 | 1 | 1 | 2 | 3 | | 1 | 2 | | 2 | 1 | | 1 | 57 | 1.5 |
| 23,001 - 25,000 | 5 | 10 | 21 | 15 | 22 | 15 | 9 | 1 | 2 | 5 | 6 | | 2 | 3 | 3 | 4 | 3 | | 2 | 128 | 3.3 |
| 25,001 - 27,000 | | 9 | 6 | 6 | 18 | 3 | 5 | 3 | 2 | 1 | 3 | 3 | 3 | 7 | 6 | 4 | 1 | 3 | | 83 | 2.2 |
| 27,001 - 29,000 | 8 | 9 | 29 | 15 | 37 | 16 | 35 | 5 | 19 | 8 | 11 | 11 | 12 | 23 | 23 | 13 | 10 | 13 | 15 | 312 | 8.2 |
| Over 29,000 | 2 | | | 1 | | | | | | | | | 1 | | | | 1 | | 1 | 6 | 0.2 |
| Total | 68 | 130 | 318 | 381 | 473 | 153 | 164 | 92 | 142 | 136 | 120 | 111 | 171 | 234 | 239 | 243 | 230 | 191 | 225 | 3,821 | 100.0 |
| Percent | 1.8 | 3.4 | 8.3 | 9.9 | 12.4 | 4.0 | 4.3 | 2.4 | 3.7 | 3.6 | 3.1 | 2.9 | 4.5 | 6.1 | 6.3 | 6.4 | 6.0 | 5.0 | 5.9 | 100.0 | |

This matrix is a result of a clerical match between the 1970 Saskatchewan motor vehicle registrations, and the 1970-71 Canadian Wheat Board permit holders. Names and addresses were matched to identify which trucks were owned by each permit holder. As there were difficulties in matching, the number of permit holders at a given delivery point may not equal total permit holders, but approximately 77 percent of all possible matches were completed with an estimated error of 10 percent. Two other points may also account for the difference: (1) it is a recognizable fact that some farmers arrange to have their grain hauled by a neighbour; and (2) some farm trucks are used for on-farm use only and as such are not registered.

Source: Compiled by the Canadian Transport Commission from Canadian Wheat Board and Saskatchewan Treasury Department, Taxation Branch data.

Farm to Elevator Hauling Distances

Tributary areas supplying grain to delivery points for the crop years 1962-63 and 1969-70 are shown in Figures 4.1 and 4.2. As recorded in individual Canadian Wheat Board permit books, each quarter section was plotted to produce a graphic portrayal of the relative sizes and shapes of hinterlands. Unimproved farmland is, of course, included by this method of presentation. Crown land, wasteland, bodies of water and farmland tributary to delivery points outside the study area are excluded.

Table 3.15 is a comparison of farm to elevator grain hauling distances for 1962-63 and 1969-70. In a sense, the average hauling distance is also a measure of the geographic size of a hinterland as additional acres generally increase the hauling distance. The data were derived from the 1962-63 and 1969-70 hinterland maps, Figures 4.1 and 4.2, by measuring the grid distance between the delivery point and the midpoint of each section block. The delivery point was always taken to be located at one corner of a section resulting in a minimum distance of 1.0 mile, all subsequent distances being 1.0 plus 1.0, 2.0 or 3.0 miles, etc., to the furthest boundary of the hinterland. If a natural barrier such as a river bisects the study area allowance is made for the extra hauling distance producers must travel via available roads.

The average distance of each quarter section from its delivery point was calculated as follows: the distance of each section, as derived above, was weighted or multiplied by the relevant¹ number of quarter sections within that section, the products of these calculations being accumulated and their sum divided by the total number of quarter sections in the hinterland. One might say that the result is the average distance each section is from the delivery point weighted by the number of relevant quarter sections.

As an estimate of farm to elevator hauling distances, this method may be criticized for not taking into account the actual locations of on-farm grain storage facilities as well as most of the existing network of roads. Such criticism may not be too serious, however, since grain is usually hauled from the field to the farm storage, being taken to the country elevator at a later date. In effect, therefore, the hauling activity originates from each quarter section. It is difficult to estimate the magnitude of the error introduced by ignoring some roads, but it will be greater for a hinterland with a few roads than for a hinterland with a good network of roads. To the extent that error is introduced by ignoring roads, the method used underestimates hauling distances.

The average hauling distance in the study area in 1969-70 was 8.77 miles, somewhat more than the 1962-63 average of 8.03 miles. The highest maximum distances were 36 miles at Bjorkdale and Kelvington in 1962-63 and 42 miles at Tisdale in 1969-70, an increase of 6 miles. The lowest maximum distances were 10 miles in 1962-63 and 9 miles in 1969-70, both occurring at Clemenceau.

¹A "relevant" quarter section was both recorded in some farmer's delivery permit book and contained in the hinterland of the delivery point in question.

The largest hinterland in terms of average hauling distance in both crop years was Carrot River which had averages of 12.96 miles in 1962-63 and 14.08 miles in 1969-70. The shortest average hauling distances were 3.32 miles at Veillardville in 1962-63 and 3.33 miles at Golburn in 1969-70.

The changes in average hauling distances between the two crop years were small. Only six delivery points had a distance change of one mile or more. The largest decrease, -2.00 miles, was at Armley and the largest increase, 2.19 miles, was at Tisdale. Compared with larger centers, a greater proportion of smaller centers had decreased hauling distances.

TABLE 3.15 FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT,
1962-63 AND 1969-70

| Delivery Point | 1962-63 ^a | | 1969-70 ^a | | Change | |
|-------------------------------|----------------------|---------|----------------------|---------|---------|---------|
| | Maximum | Average | Maximum | Average | Maximum | Average |
| - miles - | | | | | | |
| <i>Too Small to Classify</i> | | | | | | |
| 1 Clashmoor | 16 | 6.83 | Closed | | | |
| 2 Veillardville | 16 | 3.32 | Closed | | | |
| 3 Golburn | 23 | 6.38 | 15 | 3.33 | -8 | -3.05 |
| 4 Lurgan | 18 | 5.69 | 17 | 5.18 | -1 | -0.51 |
| 5 New Osgoode | 15 | 4.82 | 14 | 4.66 | -1 | -0.16 |
| <i>Hamlets</i> | | | | | | |
| 6 Carlea | 13 | 3.64 | 10 | 3.50 | -3 | -0.14 |
| 7 Moose Range | 11 | 4.67 | 19 | 4.18 | +8 | -0.49 |
| 8 Usherville | Storage only | | | | | |
| 9 Peesane | 11 | 4.04 | 11 | 4.18 | 0 | +0.14 |
| 10 Leacross | 20 | 3.56 | 10 | 3.73 | -10 | +0.17 |
| 11 Clemenceau | 10 | 3.88 | 9 | 3.42 | -1 | -0.46 |
| 12 Runciman | 15 | 3.86 | 26 | 4.74 | +11 | +0.88 |
| 13 Armley | 13 | 5.51 | 11 | 3.51 | -2 | -2.00 |
| 14 Nut Mountain | 18 | 6.03 | 30 | 6.41 | +12 | +0.38 |
| <i>Villages</i> | | | | | | |
| 15 Eldersley | 11 | 5.10 | 21 | 6.28 | +10 | +1.18 |
| 16 Valparaiso | 30 | 7.99 | 38 | 8.12 | +8 | +0.13 |
| 17 McKague | 14 | 6.24 | 13 | 5.85 | -1 | -0.39 |
| 18 Sylvania | 18 | 6.10 | 19 | 6.62 | +1 | +0.52 |
| 19 Somme | 18 | 7.75 | 26 | 8.37 | +8 | +0.62 |
| 20 Chelan | 22 | 7.16 | 20 | 7.38 | -2 | +0.22 |
| 21 Prairie River | 18 | 6.98 | 23 | 7.08 | +5 | +0.10 |
| 22 Crooked River ^b | - | - | 19 | 5.93 | - | - |
| 23 Carragana | 19 | 8.24 | 18 | 7.84 | -1 | -0.40 |
| 24 Mistatim | 19 | 6.72 | 18 | 6.78 | -1 | +0.06 |
| 25 Weekes | 18 | 7.30 | 23 | 8.12 | +5 | +0.82 |
| 26 Bjorkdale | 36 | 6.87 | 18 | 6.47 | -18 | -0.40 |
| 27 Aylsham | 27 | 6.34 | 30 | 6.96 | +3 | +0.62 |
| 28 Archerwill | 19 | 9.87 | 19 | 9.71 | 0 | -0.16 |
| <i>Towns</i> | | | | | | |
| 29 Zenon Park | 14 | 5.06 | 15 | 6.07 | +1 | +1.01 |
| 30 Arborfield | 32 | 8.24 | 40 | 10.10 | +8 | +1.86 |

See footnotes at end of table.

(continued)

TABLE 3.15 FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT,
1962-63 AND 1969-70 (concluded)

| Delivery Point | 1962-63 ^a | | 1969-70 ^a | | Change | |
|----------------------|----------------------|---------|----------------------|---------|---------|---------|
| | Maximum | Average | Maximum | Average | Maximum | Average |
| - miles - | | | | | | |
| <i>Greater Towns</i> | | | | | | |
| 31 Porcupine Plain | 26 | 9.07 | 27 | 9.04 | +1 | -0.03 |
| 32 Kelvington | 36 | 9.95 | 28 | 10.69 | -8 | +0.74 |
| 33 Carrot River | 31 | 12.96 | 30 | 14.08 | -1 | +1.12 |
| 34 Tisdale | 32 | 8.41 | 42 | 10.60 | +10 | +2.19 |
| Total Study Area | 36 | 8.03 | 42 | 8.77 | +6 | +0.74 |

^aAs the minimum distance in all cases was assumed to be 1.0 mile, the
^brange in distances for each hinterland is the maximum minus 1.0 mile.
 Crooked River did not become a delivery point until 1966.

PART IV

A SUGGESTED ALTERNATIVE GRAIN COLLECTION SYSTEM

Community characteristics, grain production characteristics, and grain marketing and handling characteristics of the study area have been covered in the first three parts of this report. Part IV endeavors to show what changes may take place if some delivery points are closed. The proposed alternative system has no official status. It is neither a set of recommendations nor a set of final adjustments that will in fact occur. The authors have scanned the delivery points and selected for closure those they think least likely to survive judging by the traffic density of the rail lines serving them, the number of delivery permits issued for them, and the distance from them to other points that will likely remain in operation. Some consideration has been given to the wishes of the railway and elevator companies. Applications that have been filed with the Canadian Transport Commission for permission to abandon lines were used to gauge what the railway companies wanted. Records of the volume of grain receipts per year put through delivery points were considered to be evidence of what the elevator companies wanted. Figure 4.3 shows the hinterlands of grain delivery points assumed remaining open. This map is only intended to be an approximation of what the future may have in store for farmers in the Tisdale region.

For purposes of this study fifteen delivery points were assumed closed: six on the Chelan railway subdivision, four on the Tisdale subdivisions (CN and CP), three on the Arborfield subdivision and two on the Brooksby subdivision. Of the sixteen points remaining open, only Nut Mountain and Valparaiso would be unaffected by additional grain receipts upon rationalization (Table 4.1).

Figure 4.3 was derived from 1969-70 hinterlands by diverting each quarter section from those points assumed to be closed to alternate points assumed to be open. Although an element of subjective judgement was involved, the following criteria served as guides in the selection of alternate delivery points: (1) shortest hauling distances; (2) road conditions; and (3) size of community and number of services at alternate points. These criteria are listed in order of importance, but in some instances the second criterion took precedence over the first. Only minor importance was given to the third criterion.

TABLE 4.1 STATUS OF DELIVERY POINTS AFTER DIVERSION, 1969-70^a

| Points Assumed Closed | Points Remaining Open | |
|--------------------------|--------------------------|----------------------------|
| | Affected by Diversion | Unaffected by Diversion |
| 3 Golburn | 11 Clemenceau | 14 Nut Mountain |
| 4 Lurgan | 12 Runciman | 16 Valparaiso |
| 5 New Osgoode | 13 Armley | |
| 6 Carlea | 15 Eldersley | |
| 7 Moose Range | 17 McKague | |
| 9 Peesane | 18 Sylvania | |
| 10 Leacross | 21 Prairie River | |
| 19 Somme | 22 Crooked River | |
| 20 Chelan | 24 Mistatim | |
| 23 Carragana | 27 Aylsham | |
| 25 Weekes | 28 Archerwill | |
| 26 Bjorkdale | 32 Kelvington | |
| 29 Zenon Park | 33 Carrot River | |
| 30 Arborfield | 34 Tisdale | |
| 31 Porcupine Plain | | |

^aVeillardville and Clashmoor, were closed prior to 1969-70 and Usherville was closed for storage in 1969-70.

Probable Diversion of Acreages and Bushels Conditional on Closing Certain Delivery Points

Table 4.2, the "loss" aspect of diversion, and Table 4.3, the "gain" aspect of diversion, show the probable changes in acreages and bushels that would occur should the specified points be closed. In Table 4.2 the percentage distribution figures were determined on the basis of the number of quarter sections diverted to each alternate delivery point. For example: 77.8 percent of the total number of quarter sections in the hinterland of Golburn were diverted to Sylvania, 20.0 percent were diverted to Tisdale and 2.2 percent were diverted to Eldersley. Of the 7,535 acres of farmland at Golburn in 1969-70, 5,862 acres were transferred to Sylvania, 1,507 acres were transferred to Tisdale and 166 acres were transferred to Eldersley. Altogether 660,210 acres, 15.5 percent of over four million acres in the study area, were transferred from points assumed to be closed to points assumed to be open.

Bushel diversion estimates were also made on the basis of the quarter section percentage distribution. Of the 41,441 bushels of grain received at Golburn in 1969-70, it was assumed that 32,241 bushels, 77.8 percent, would go to Sylvania, that 8,288 bushels, 20.0 percent, would go to Tisdale and that 912 bushels, 2.2 percent, would go to Eldersley. Because annual receipts

TABLE 4.2 DIVERSIONS (FROM-TO) OF ACREAGES AND BUSHELs CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70

| From Closed Point To Diversion Point | Percent Diverted | Acres Diverted 1969-70 | Bushels Diverted | |
|---|---------------------|------------------------------|------------------|--|
| | | | 1969-70 | Ten-year Average 1960-61 to 1969-70 |
| From: 9 Peesane | | | | |
| To: 24 Mistatim | 2.4 | 344 | 1,393 | 1,441 |
| 15 Eldersley | 3.6 | 515 | 2,091 | 2,158 |
| 22 Crooked River | 94.0 | 13,455 | 54,590 | 56,357 |
| <u>Total</u> | 100.0 | 14,314 | 58,074 | 59,956 |
| From: 3 Golburn | | | | |
| To: 15 Eldersley | 2.2 | 166 | 912 | 1,323 |
| 34 Tisdale | 20.0 | 1,507 | 8,288 | 11,996 |
| 18 Sylvania | 77.8 | 5,862 | 32,241 | 46,677 |
| <u>Total</u> | 100.0 | 7,535 | 41,441 | 59,996 |
| From: 10 Leacross | | | | |
| To: 13 Armley | 45.5 | 3,919 | 29,514 | 42,438 |
| 12 Runciman | 54.5 | 4,695 | 35,351 | 50,833 |
| <u>Total</u> | 100.0 | 8,614 | 64,865 | 93,271 |
| From: 6 Carlea | | | | |
| To: 27 Aylsham | 41.7 | 5,584 | 50,359 | 55,310 |
| 13 Armley | 58.3 | 7,806 | 70,407 | 77,327 |
| <u>Total</u> | 100.0 | 13,390 | 120,766 | 132,637 |
| From: 4 Lurgan | | | | |
| To: 22 Crooked River | 4.8 | 855 | 5,294 | 7,358 |
| 15 Eldersley | 11.4 | 2,030 | 12,574 | 17,473 |
| 12 Runciman | 18.1 | 3,224 | 19,964 | 27,742 |
| 34 Tisdale | 65.7 | 11,701 | 72,466 | 100,700 |
| <u>Total</u> | 100.0 | 17,810 | 110,298 | 153,273 |
| From: 7 Moose Range | | | | |
| To: 27 Aylsham | 33.3 | 3,935 | 42,176 | 57,786 |
| 33 Carrot River | 66.7 | 7,883 | 84,478 | 115,747 |
| <u>Total</u> | 100.0 | 11,818 | 126,654 | 173,533 |
| From: 5 New Osgoode | | | | |
| To: 15 Eldersley | 28.2 | 6,705 | 46,944 | 61,310 |
| 12 Runciman | 32.1 | 7,631 | 53,437 | 69,790 |
| 22 Crooked River | 39.7 | 9,438 | 66,089 | 86,313 |
| <u>Total</u> | 100.0 | 23,774 | 166,470 | 217,413 |
| From: 20 Chelan | | | | |
| To: 21 Prairie River | 0.6 | 357 | 1,739 | 1,429 |
| 28 Archerwill | 1.6 | 952 | 4,637 | 3,810 |
| 22 Crooked River | 3.0 | 1,785 | 8,694 | 7,144 |
| 32 Kelvington | 8.0 | 4,761 | 23,184 | 19,052 |
| 17 McKague | 28.9 | 17,198 | 83,752 | 68,824 |
| 24 Mistatim | 57.9 | 34,456 | 167,795 | 137,886 |
| <u>Total</u> | 100.0 | 59,509 | 289,801 | 238,145 |

(continued)

TABLE 4.2 DIVERSIONS (FROM-TO) OF ACREAGES AND BUSHELS CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70 (concluded)

| From Closed Point To Diversion Point | Percent Diverted | Acres Diverted 1969-70 | Bushels Diverted | |
|---|---------------------|------------------------------|------------------|--|
| | | | 1969-70 | Ten-year Average 1960-61 to 1969-70 |
| From: 23 Carragana | | | | |
| To: 32 Kelvington | 0.9 | 317 | 2,007 | 2,469 |
| 11 Clemenceau | 1.4 | 492 | 3,122 | 3,842 |
| 24 Mistatim | 1.8 | 633 | 4,014 | 4,939 |
| 21 Prairie River | 95.9 | 33,730 | 213,862 | 263,146 |
| <u>Total</u> | 100.0 | 35,172 | 223,005 | 274,396 |
| From: 26 Bjorkdale | | | | |
| To: 15 Eldersley | 1.4 | 1,182 | 5,072 | 4,532 |
| 18 Sylvania | 1.9 | 1,605 | 6,884 | 6,150 |
| 28 Archerwill | 3.7 | 3,125 | 13,406 | 11,977 |
| 24 Mistatim | 6.7 | 5,659 | 24,275 | 21,687 |
| 17 McKague | 29.4 | 24,831 | 106,519 | 95,165 |
| 22 Crooked River | 56.9 | 48,057 | 206,155 | 184,180 |
| <u>Total</u> | 100.0 | 84,459 | 362,311 | 323,691 |
| From: 25 Weekes | | | | |
| To: 21 Prairie River | 8.2 | 4,062 | 32,322 | 29,006 |
| 11 Clemenceau | 91.8 | 45,471 | 361,849 | 324,723 |
| <u>Total</u> | 100.0 | 49,533 | 394,171 | 353,729 |
| From: 19 Somme | | | | |
| To: 24 Mistatim | 1.0 | 489 | 4,400 | 3,918 |
| 11 Clemenceau | 7.9 | 3,863 | 34,755 | 30,955 |
| 21 Prairie River | 91.1 | 44,542 | 400,788 | 356,963 |
| <u>Total</u> | 100.0 | 48,894 | 439,943 | 391,836 |
| From: 29 Zenon Park | | | | |
| To: 13 Armley | 4.6 | 2,908 | 22,863 | 20,023 |
| 12 Runciman | 10.7 | 6,765 | 53,181 | 46,573 |
| 22 Crooked River | 33.3 | 21,055 | 165,507 | 144,943 |
| 27 Aylsham | 51.4 | 32,499 | 255,467 | 223,726 |
| <u>Total</u> | 100.0 | 63,227 | 497,018 | 435,265 |
| From: 31 Porcupine Plain | | | | |
| To: 22 Crooked River | 0.2 | 207 | 912 | 917 |
| 11 Clemenceau | 0.3 | 310 | 1,367 | 1,375 |
| 21 Prairie River | 16.3 | 16,832 | 74,283 | 74,700 |
| 32 Kelvington | 30.6 | 31,599 | 139,452 | 140,235 |
| 24 Mistatim | 52.6 | 54,317 | 239,712 | 241,058 |
| <u>Total</u> | 100.0 | 103,265 | 455,726 | 458,285 |
| From: 30 Arborfield | | | | |
| To: 13 Armley | 1.1 | 1,309 | 10,829 | 9,940 |
| 22 Crooked River | 16.9 | 20,093 | 166,383 | 152,720 |
| 27 Aylsham | 21.8 | 25,919 | 214,624 | 197,000 |
| 33 Carrot River | 60.2 | 71,575 | 592,677 | 544,009 |
| <u>Total</u> | 100.0 | 118,896 | 984,513 | 903,669 |
| Study Area Total | | 660,210 | 4,335,056 | 4,269,095 |

fluctuate considerably, bushel diversions based on the ten-year average of the crop years from 1960-61 to 1969-70 have been calculated in the same manner. If the specified delivery points in Table 4.2 had been closed in 1969-70, there would have been an estimated diversion of 4,335,056 bushels on the one-year basis compared with an estimated diversion of 4,269,095 bushels on the ten-year average basis. In this table the specified delivery points are listed in ascending order according to the average bushels assumed diverted from 1960-61 to 1969-70.

In Table 4.3 the acreage and bushel amounts diverted to each point assumed to remain open, were taken from Table 4.2. The "percent diverted" data were computed from the figures on acreage diversion. In this table as in the previous table, delivery points are listed in ascending order on the basis of ten-year average receipts from 1960-61 to 1969-70. Archerwill gained the least bushelage, 15,787; whereas Prairie River gained the most bushelage, 725,244.

TABLE 4.3 DIVERSIONS (TO-FROM) OF ACREAGES AND BUSHELs CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70

| To Diversion Point From Closed Point | Percent Diverted | Acres Diverted 1969-70 | Bushels Diverted | |
|---|---------------------|------------------------------|------------------|--|
| | | | 1969-70 | Ten-year Average 1960-61 to 1969-70 |
| To: 28 Archerwill | | | | |
| From: 20 Chelan | 23.4 | 952 | 4,637 | 3,810 |
| 26 Bjorkdale | 76.6 | 3,125 | 13,406 | 11,977 |
| <u>Total</u> | 100.0 | 4,077 | 18,043 | 15,787 |
| To: 18 Sylvania | | | | |
| From: 26 Bjorkdale | 21.5 | 1,605 | 6,884 | 6,150 |
| 3 Golburn | 78.5 | 5,862 | 32,241 | 46,677 |
| <u>Total</u> | 100.0 | 7,467 | 39,125 | 52,827 |
| To: 15 Eldersley | | | | |
| From: 3 Golburn | 1.4 | 166 | 912 | 1,323 |
| 9 Peesane | 4.9 | 515 | 2,091 | 2,158 |
| 26 Bjorkdale | 11.2 | 1,182 | 5,072 | 4,532 |
| 4 Lurgan | 19.2 | 2,030 | 12,574 | 17,473 |
| 5 New Osgoode | 63.3 | 6,705 | 46,944 | 61,310 |
| <u>Total</u> | 100.0 | 10,598 | 67,593 | 86,796 |
| To: 34 Tisdale | | | | |
| From: 3 Golburn | 11.4 | 1,507 | 8,288 | 11,996 |
| 4 Lurgan | 88.6 | 11,701 | 72,466 | 100,700 |
| <u>Total</u> | 100.0 | 13,208 | 80,754 | 112,696 |
| To: 32 Kelvington | | | | |
| From: 23 Carragana | 0.8 | 317 | 2,007 | 2,469 |
| 20 Chelan | 13.0 | 4,761 | 23,184 | 19,052 |
| 31 Porcupine Plain | 86.2 | 31,599 | 139,452 | 140,235 |
| <u>Total</u> | 100.0 | 36,677 | 164,643 | 161,756 |
| To: 17 McKague | | | | |
| From: 20 Chelan | 40.9 | 17,198 | 83,752 | 68,824 |
| 26 Bjorkdale | 59.1 | 24,831 | 106,519 | 95,165 |
| <u>Total</u> | 100.0 | 42,029 | 190,271 | 163,989 |
| To: 13 Armley | | | | |
| From: 30 Arborfield | 8.2 | 1,309 | 10,829 | 9,940 |
| 29 Zenon Park | 18.2 | 2,908 | 22,863 | 20,023 |
| 10 Leacross | 24.6 | 3,919 | 29,514 | 42,438 |
| 6 Carlea | 49.0 | 7,806 | 70,407 | 77,327 |
| <u>Total</u> | 100.0 | 15,942 | 133,613 | 149,728 |
| To: 12 Runciman | | | | |
| From: 4 Lurgan | 14.5 | 3,224 | 19,964 | 27,742 |
| 10 Leacross | 21.0 | 4,695 | 35,351 | 50,833 |
| 29 Zenon Park | 30.3 | 6,765 | 53,181 | 46,573 |
| 5 New Osgoode | 34.2 | 7,631 | 53,437 | 69,790 |
| <u>Total</u> | 100.0 | 22,315 | 161,933 | 194,938 |

(continued)

TABLE 4.3 DIVERSIONS (TO-FROM) OF ACREAGES AND BUSHELs CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70 (concluded)

| To Diversion Point From Closed Point | Percent Diverted | Acres Diverted 1969-70 | Bushels Diverted | |
|---|---------------------|------------------------------|------------------|--|
| | | | 1969-70 | Ten-year Average 1960-61 to 1969-70 |
| To: 11 Clemenceau | | | | |
| From: 31 Porcupine Plain | 0.6 | 310 | 1,367 | 1,375 |
| 23 Carragana | 1.0 | 492 | 3,122 | 3,842 |
| 19 Somme | 7.7 | 3,863 | 34,755 | 30,955 |
| 25 Weekes | 90.7 | 45,471 | 361,849 | 324,723 |
| <u>Total</u> | 100.0 | 50,136 | 401,093 | 360,895 |
| To: 24 Mistatim | | | | |
| From: 9 Peesane | 0.3 | 344 | 1,393 | 1,441 |
| 19 Somme | 0.6 | 489 | 4,400 | 3,918 |
| 23 Carragana | 0.7 | 633 | 4,014 | 4,939 |
| 26 Bjorkdale | 5.9 | 5,659 | 24,275 | 21,687 |
| 20 Chelan | 35.9 | 34,456 | 167,795 | 137,886 |
| 31 Porcupine Plain | 56.6 | 54,317 | 239,712 | 241,058 |
| <u>Total</u> | 100.0 | 95,898 | 441,589 | 410,929 |
| To: 27 Aylsham | | | | |
| From: 7 Moose Range | 5.8 | 3,935 | 42,176 | 57,786 |
| 6 Carlea | 8.2 | 5,584 | 50,359 | 55,310 |
| 30 Arborfield | 38.2 | 25,919 | 214,624 | 197,000 |
| 29 Zenon Park | 47.8 | 32,499 | 255,467 | 223,726 |
| <u>Total</u> | 100.0 | 67,937 | 562,626 | 533,822 |
| To: 22 Crooked River | | | | |
| From: 31 Porcupine Plain | 0.2 | 207 | 912 | 917 |
| 4 Lurgan | 0.7 | 855 | 5,294 | 7,358 |
| 20 Chelan | 1.6 | 1,785 | 8,694 | 7,144 |
| 9 Peesane | 11.7 | 13,455 | 54,590 | 56,357 |
| 5 New Osgoode | 8.2 | 9,438 | 66,089 | 86,313 |
| 29 Zenon Park | 18.3 | 21,055 | 165,507 | 144,943 |
| 30 Arborfield | 17.5 | 20,093 | 166,383 | 152,720 |
| 26 Bjorkdale | 41.8 | 48,057 | 206,155 | 184,180 |
| <u>Total</u> | 100.0 | 114,945 | 673,624 | 639,932 |
| To: 33 Carrot River | | | | |
| From: 7 Moose Range | 9.9 | 7,883 | 84,478 | 115,747 |
| 30 Arborfield | 90.1 | 71,575 | 592,677 | 544,009 |
| <u>Total</u> | 100.0 | 79,458 | 677,155 | 659,756 |
| To: 21 Prairie River | | | | |
| From: 20 Chelan | 0.3 | 357 | 1,739 | 1,429 |
| 25 Weekes | 4.1 | 4,062 | 32,322 | 29,006 |
| 31 Porcupine Plain | 16.9 | 16,832 | 74,283 | 74,700 |
| 23 Carragana | 33.9 | 33,730 | 213,862 | 263,146 |
| 19 Somme | 44.8 | 44,542 | 400,788 | 356,963 |
| <u>Total</u> | 100.0 | 99,523 | 722,994 | 725,244 |
| Study Area Total | | 660,210 | 4,335,056 | 4,269,095 |

Size of Hinterlands Before and After Diversion

Table 4.4 shows hinterland acreage increases for the fourteen points assumed to be open after acreage diversion. Archerwill had the least gain in both absolute and relative terms, 4,077 acres or 3.6 percent. Crooked River had the greatest gain, 114,945 acres or 354.4 percent. On the average the hinterlands of the diversion points increased by 60.8 percent.

TABLE 4.4 SIZE OF HINTERLANDS BEFORE AND AFTER DIVERSION, BASIS 1969-70

| Diversion Point | Before Diversion | Acreage Increase | After Diversion | Percent Increase |
|------------------|--------------------------|---------------------|------------------------|---------------------|
| | Original Size 1969-70 | | Enlarged Size | |
| | - acres - | - acres - | - acres - | |
| 28 Archerwill | 112,604 | 4,077 | 116,681 | 3.6 |
| 18 Sylvania | 52,515 | 7,467 | 59,982 | 14.2 |
| 15 Eldersley | 45,350 | 10,598 | 55,948 | 23.4 |
| 34 Tisdale | 124,840 | 13,208 | 138,048 | 10.6 |
| 32 Kelvington | 192,139 | 36,677 | 228,816 | 19.1 |
| 17 McKague | 33,987 | 42,029 | 76,016 | 123.7 |
| 13 Armley | 14,154 | 15,942 | 30,096 | 112.6 |
| 12 Runciman | 21,654 | 22,315 | 43,969 | 103.1 |
| 11 Clemenceau | 19,022 | 50,136 | 69,158 | 263.6 |
| 24 Mistatim | 70,101 | 95,898 | 165,999 | 136.8 |
| 27 Aylsham | 69,010 | 67,937 | 136,947 | 98.4 |
| 22 Crooked River | 32,433 | 114,945 | 147,378 | 354.4 |
| 33 Carrot River | 244,226 | 79,458 | 323,684 | 32.5 |
| 21 Prairie River | 54,082 | 99,523 | 153,605 | 184.0 |
| Study Area Total | 1,086,117 | 660,210 | 1,746,327 ^a | 60.8 |

^aNut Mountain and Valparaiso are not included in this total.

Throughput Ratios Before and After Diversion

Rationalization of the grain delivery point system assumes the closure of fifteen points, thereby reducing the total elevator capacity of the study area by almost 2.4 million bushels or 30 percent. Assuming that no more storage is built, the throughput ratios that would result from diversion are given in Table 4.5.¹

Based on the crop years from 1960-61 to 1969-70, diversion would increase the average throughput ratio for the study area from 1.5 to 2.1. On the ten-year average base, 10 of the 14 delivery points now have throughput ratios of less than 2.0; also over half of all the points have ratios between 1.0 and 2.0. The highest ratio, 3.6, is at Clemenceau. After diversion only three points would have ratios below 2.0. The highest ratio, 18.1, would again be at Clemenceau and it would represent an increase of over five times the ratio before diversion.

Provided that the optimum ratio for throughput is somewhat greater than 4.0 or 5.0, none of the elevators in the study area except Clemenceau should experience any difficulty in handling the additional throughput after diversion takes place. If the delivery point of Prairie River, for example, were to achieve a throughput ratio of 5.5 based on its present storage capacity of 187,000 bushels, that point would have to handle 1,028,500 bushels or a total of 515 boxcars in one year. This would mean that the two grain elevators there would be required to load an average of ten boxcars per week during the year. The railway siding at Prairie River can accommodate ten boxcars in one shunt (Table 3.12).

¹Throughput ratios for all delivery points before diversion are shown in Table 3.7.

TABLE 4.5 THROUGHPUT RATIOS BY DELIVERY POINT BEFORE AND AFTER DIVERSION,
BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE

| Diversion Point | Before Diversion | | After Diversion | |
|------------------|-------------------|--|-----------------|--|
| | Actual 1969-70 | Ten-Year Average 1960-61 to 1969-70 | 1969-70 | Ten-Year Average 1960-61 to 1969-70 |
| 28 Archerwill | 1.3 | 1.2 | 1.3 | 1.3 |
| 18 Sylvania | 1.6 | 1.7 | 1.8 | 2.0 |
| 15 Eldersley | 2.2 | 2.1 | 2.6 | 2.6 |
| 34 Tisdale | 1.8 | 1.4 | 1.9 | 1.6 |
| 32 Kelvington | 2.2 | 2.0 | 2.4 | 2.3 |
| 17 McKague | 2.0 | 2.0 | 5.7 | 5.2 |
| 13 Armley | 1.0 | 1.4 | 2.2 | 2.7 |
| 12 Runciman | 1.2 | 1.8 | 2.8 | 3.2 |
| 11 Clemenceau | 3.6 | 3.6 | 19.6 | 18.1 |
| 24 Mistatim | 1.2 | 0.9 | 2.6 | 2.2 |
| 27 Aylsham | 1.4 | 1.2 | 2.5 | 2.2 |
| 22 Crooked River | 0.9 | 0.6 | 4.1 | 3.6 |
| 33 Carrot River | 1.3 | 1.1 | 1.8 | 1.5 |
| 21 Prairie River | 2.4 | 1.6 | 6.2 | 5.5 |
| Total Study Area | 1.7 ^a | 1.5 ^a | 2.2 | 2.1 |

^aAverage throughput ratio of all points open from Table 3.7.

Farm to Elevator Hauling Distances Before and After Diversion

Table 4.6 presents a comparison of maximum and average hauling distances before and after diversion for both points assumed to be closed and points assumed to remain open. The changes in maximum and average mileages due to diversion are also shown.

For the study area as a whole, diversion increased the average farm to elevator hauling distance from 8.77 to 11.25 miles, a difference of 2.48 miles. Before diversion the shortest average hauling distance was 3.33 miles at Golburn and the longest average hauling distance was 14.08 miles at Carrot River. For points remaining open after diversion Armley had the shortest average hauling distance, 4.86 miles, and Carrot River had the longest average hauling distance, 14.16 miles.¹

After diversion, there was no change in the average hauling distance for two points that remained open. Five open points had a change of less than a mile; three points had a change between one and two miles, and six points had a change of more than three miles.

Hauling distances increased considerably for nearly all points assumed to be closed. The greatest jump occurred at Porcupine Plain where the mileage rose from 9.04 miles to 22.25 miles, an increase of 13.21 miles. The maximum hauling distance in the study area, 42 miles at Tisdale, was not affected by diversion.

¹The fact that average hauling distances at Sylvania and Tisdale actually decreased slightly can be explained by the location of the acreages added in relation to the shape of the hinterlands. Much of the Tisdale hinterland, for instance, extends quite far south (Figure 4.2) and some of it is further from Tisdale than the added acreage (Figure 4.3). Since average hauling distance is an average weighted by the number of quarter sections (see commentary for Table 3.15), adding more quarter sections close to the delivery point results in the average being pulled downwards.

TABLE 4.6 FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70

| Delivery Point | Before Diversion 1969-70 | | After Diversion Basis 1969-70 | | Change | |
|------------------------------|-----------------------------|---------|----------------------------------|---------|---------|---------|
| | Maximum | Average | Maximum | Average | Maximum | Average |
| - miles - | | | | | | |
| <i>Points Assumed Closed</i> | | | | | | |
| 9 Peesane | 11 | 4.18 | 15 | 8.06 | +4 | +3.88 |
| 3 Golburn | 15 | 3.33 | 11 | 5.73 | -4 | +2.40 |
| 10 Leacross | 10 | 3.73 | 9 | 4.45 | -1 | +0.72 |
| 6 Carlea | 10 | 3.50 | 11 | 5.61 | +1 | +2.11 |
| 4 Lurgan | 17 | 5.18 | 11 | 6.22 | -6 | +1.04 |
| 7 Moose Range | 19 | 4.18 | 11 | 6.48 | -8 | +2.30 |
| 5 New Osgoode | 14 | 4.66 | 19 | 9.01 | +5 | +4.35 |
| 20 Chelan | 20 | 7.38 | 32 | 17.68 | +12 | +10.30 |
| 23 Carragana | 18 | 7.84 | 39 | 16.03 | +21 | +8.19 |
| 26 Bjorkdale | 18 | 6.47 | 24 | 13.44 | +6 | +6.97 |
| 25 Weekes | 23 | 8.12 | 24 | 14.92 | +1 | +6.80 |
| 19 Somme | 26 | 8.37 | 24 | 15.34 | -2 | +6.97 |
| 29 Zenon Park | 15 | 6.07 | 24 | 11.29 | +9 | +5.22 |
| 31 Porcupine Plain | 27 | 9.04 | 38 | 22.25 | +11 | +13.21 |
| 30 Arborfield | 40 | 10.10 | 29 | 14.83 | -11 | +4.73 |
| <i>Points Remaining Open</i> | | | | | | |
| 14 Nut Mountain | 30 | 6.41 | 30 | 6.41 | 0 | 0.0 |
| 16 Valparaiso | 38 | 8.12 | 38 | 8.12 | 0 | 0.0 |
| 28 Archerwill | 19 | 9.71 | 19 | 10.27 | 0 | +0.56 |
| 18 Sylvania | 19 | 6.62 | 19 | 6.55 | 0 | -0.07 |
| 15 Eldersley | 21 | 6.28 | 21 | 6.56 | 0 | +0.28 |
| 34 Tisdale | 42 | 10.60 | 42 | 10.27 | 0 | -0.33 |
| 32 Kelvington | 28 | 10.69 | 38 | 13.76 | +10 | +3.07 |
| 17 McKague | 13 | 5.85 | 20 | 9.86 | +7 | +4.01 |
| 13 Armley | 11 | 3.51 | 11 | 4.86 | 0 | +1.35 |
| 12 Runciman | 26 | 4.74 | 26 | 5.82 | 0 | +1.08 |
| 11 Clemenceau | 9 | 3.42 | 23 | 11.84 | +14 | +8.42 |
| 24 Mistatim | 18 | 6.78 | 28 | 13.13 | +10 | +6.35 |
| 27 Aylsham | 30 | 6.96 | 30 | 8.54 | 0 | +1.58 |
| 22 Crooked River | 19 | 5.93 | 27 | 12.25 | +8 | +6.32 |
| 33 Carrot River | 34 | 14.08 | 34 | 14.16 | 0 | +0.08 |
| 21 Prairie River | 23 | 7.08 | 29 | 13.01 | +6 | +5.93 |
| Total Study Area | 42 | 8.77 | 42 | 11.25 | 0 | +2.48 |

Number of Permit Holders Before and After Diversion

If the alternative grain collection system assumed in this report materialized, there would be adjustments in the number of permit holders at the delivery points affected. Based on the number of permits issued in 1969-70, estimates have been made of the probable number of permits at points remaining open after diversion (Table 4.7), these estimates being derived from the percentage distribution values of Table 4.2 in the same manner as estimates for acreage and bushelage diversion. It has been supposed that no reduction in the number of producers will result from rationalization.

A total of 1,288 permit holders, 36.6 percent of the 3,516 permit holders in the study area, would find it necessary to choose an alternate delivery point. Prairie River would make the greatest gain with the number of permit holders rising from 113 before diversion to 325 after diversion, a gain of 212. Diversion would increase the number of permit holders by over four times the number prior to diversion both at Clemenceau, 34 to 149, and at Crooked River, 63 to 270.

TABLE 4.7 NUMBER OF PERMIT HOLDERS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70

| Delivery Point | Number of Permit Holders | |
|------------------------------|--------------------------|--------------------|
| | Before Diversion | After Diversion |
| <i>Points Assumed Closed</i> | | |
| 9 Peesane | 30 | 0 |
| 3 Golburn | 20 | 0 |
| 10 Leacross | 16 | 0 |
| 6 Carlea | 26 | 0 |
| 4 Lurgan | 27 | 0 |
| 7 Moose Range | 28 | 0 |
| 5 New Osgoode | 35 | 0 |
| 20 Chelan | 123 | 0 |
| 23 Carragana | 82 | 0 |
| 26 Bjorkdale | 154 | 0 |
| 25 Weekes | 115 | 0 |
| 19 Somme | 98 | 0 |
| 29 Zenon Park | 101 | 0 |
| 31 Porcupine Plain | 216 | 0 |
| 30 Arborfield | 217 | 0 |
| <i>Points Remaining Open</i> | | |
| 14 Nut Mountain | 114 | 114 |
| 16 Valparaiso | 115 | 115 |
| 28 Archerwill | 201 | 208 |
| 18 Sylvania | 110 | 129 |
| 15 Eldersley | 80 | 97 |
| 34 Tisdale | 189 | 210 |
| 32 Kelvington | 381 | 458 |
| 17 McKague | 53 | 134 |
| 13 Armley | 27 | 56 |
| 12 Runciman | 41 | 77 |
| 11 Clemenceau | 34 | 149 |
| 24 Mistatim | 136 | 335 |
| 27 Aylsham | 124 | 243 |
| 22 Crooked River | 63 | 270 |
| 33 Carrot River | 447 | 596 |
| 21 Prairie River | 113 | 325 |
| Study Area Total | 3,516 | 3,516 |

PART V

REGULATION OF THE GRAIN INDUSTRY

There is an inherent unfairness in a situation where a large number of sellers face a few buyers. In Western Canada the existence of such a situation has led to the very high degree of regulation which characterizes the grain marketing industry today: grain elevators are regulated by the Canadian Grain Commission; grain marketers including the producers are regulated by the Canadian Wheat Board; and grain carriers--railways, truckers and lake vessel operators--are regulated by the Canadian Transport Commission as well as by the Canadian Grain Commission and the Canadian Wheat Board.

The following outline of the activity of the above regulatory bodies is not intended to be exhaustive by any means; however the most important regulations applying to producers, elevator operators and railways are covered. Because these regulations significantly influence the welfare of prairie farms and communities, they are complementary to the Prairie Regional Studies in Economic Geography.

Canada Grain Act, Revised Statutes of Canada 1970 Ch. G-16

The Canadian Grain Commission superseded the Board of Grain Commissioners for Canada on April 1, 1971, by virtue of an amended Canada Grain Act passed by the federal government in 1970. The definition of an elevator is one of several important changes in the Act (Section 2). For licensing purposes it is no longer required that an elevator be situated on a railway right-of-way. All premises which receive, weigh, elevate, store and discharge bulk grain into a transport conveyance and which meet certain construction standards specified by the Commission may be licensed to handle western grain.

For regulatory purposes the once familiar term, "country elevator", has been changed to "primary elevator" and is now defined as "an elevator the principal use of which is the receiving of grain directly from producers".

All costs of the Commission are borne by the federal treasury. The commissioners and their staff are public servants.

In the interests of the producers, the Commission establishes and maintains standards of quality for Canadian grain. Any grade or dockage dispute between producer and buyer is settled by sending a small sample of the grain to the Commission. Elevator operators must give farmers every opportunity to verify the weights of their grain.

The Commission may consent to the mixing of different grades of grain in terminal and transfer elevators. Without this consent no mixing is permitted. The Commission periodically checks the inventory of grain in all elevators.

Only a public carrier may transport grain described by an official grade name across a provincial boundary. Only a public carrier may transport grain from Western Canada to Eastern Canada or out of Canada. Public carriers may not deliver grain to primary elevators without the consent of the Commission.

Grain producers who qualify to ship a complete carload of grain to a terminal or a transfer elevator may have a rail car allocated to them for this purpose by the Commission. Where it is in the public interest so to do, the federal cabinet may order a railway company to spot cars for transporting grain at any point where service is provided. In such cases the grain producer has the right to select the elevator of his choice or to load directly into the rail car.

The car order book is no longer used as the legal instrument to ensure equity in rail car supply.

To provide for the orderly movement of grain, the Commission may issue regulations governing the activities of all licensed elevators.

The Commission may set maximum freight rates for the carriage of Canadian grain by lake vessel between points in Canada. This authority is given to the Commission by the Inland Water Freight Rates Act.

The Canadian Wheat Board Act, Revised Statutes of Canada 1970 Ch. C-12

The Canadian Wheat Board was created by the federal government in 1935 when the three prairie wheat pools, although they were backed by their respective provincial governments, could not withstand the tremendous financial pressures resulting from a great surplus of wheat on world markets and prices that were below production costs for wheat that was sold. Today the Board dominates the marketing of grain in Western Canada and makes an impact on the production of most crops grown there.

The Board consists of five commissioners appointed by the federal cabinet. Board members and support staff receive their salaries and wages from the proceeds of grain sold by farmers. In fact all the cost of operating the Board is borne by the grain producers, however they receive some assistance from the federal treasury for part of the cost of storing wheat in commercial elevators. (See outline of the Temporary Wheat Reserves Act which follows).

The Board has permanent offices in Winnipeg, Vancouver, Montreal, Tokyo and London, England. It uses the established grain export companies to make sales on an agency basis. There are 25 firms which export grain for the Board via the Lakehead and the eastern route and 17 firms which handle Board grain via ports on the Pacific Coast.

The Board has no assets of its own. It has no funds; it retains no profits. The money to pay for wheat, durum wheat, oats and barley delivered by the producers is obtained by borrowing from the chartered banks. The costs of this money is paid by the producers. The Board does not own or operate grain handling, storage or transportation facilities. It contracts with licensed primary elevator operators to act as buying and forwarding agents.

The object of the Board is to market grain in an orderly manner. This marketing function is limited to interprovincial and export trade. Grain grown and marketed within a province does not come under the jurisdiction of the Board although its authority does extend to all elevators, flour mills, feed mills, feed warehouses and seed cleaning mills.

The federal cabinet appoints an advisory committee, comprised of eleven members, at least six of them representing wheat producers.

Although the federal cabinet has authority to direct the Board how it is to operate, in practice it has a great deal of autonomy.

Elevators are operated for and on behalf of the Board. Only a Board agent may operate an elevator unless the Board excepts that elevator from provisions of the Canadian Wheat Board Act.

The Board has the authority to limit deliveries of grain by individual producers. This is accomplished by the issuing of permit books, by the fixing of delivery quotas at specified delivery points, and by some special delivery quotas for selected grain.

A bona fide grain producer is entitled to have a permit book issued to him by the Board. "Producer" includes the actual producer and any person entitled to the grain such as a landlord, a vendor or a mortgagee. The actual producer of the grain has the prior right to possession of the permit book and only one permit book may be issued per farm. Where two or more producers are entitled to the grain from a farm, no one of them may deliver in excess of his proper share of the delivery quota.

Only a producer may deliver grain to a licensed elevator subject to the provisions that he holds a permit book and that he goes to one of the two delivery points named in his permit book. While the Board has authority to designate delivery points, usually the producers are permitted to choose them.

The quantity of grain accepted from producers by elevator companies must not exceed the quota established at the time of delivery for the kind of grain being offered and for the point stipulated. A record of all deliveries must be entered in permit books.

The Board must buy whatever wheat, durum wheat, oats, and barley is offered by a bona fide producer provided that he has complied with all the orders and regulations of the Board. It must pay the appropriate initial payment on delivery. Generally this is done by the elevator operator acting on behalf of the Board. Payment for his costs is made upon the grain being delivered to the Board at a terminal or mill elevator.

A record of each grain delivery and the payment made, is entered in an accounting pool along with similar records for all other grain of like kind and grade marketed in the same crop year. Every producer shares in an equitable distribution of surplus funds in the pool at the end of its accounting period which coincides with the crop year.

Only grain taken into an elevator in accordance with orders and regulations of the Board may be loaded into a railway car.

The Board has the authority to order grain by grade loaded from elevators into railway cars or lake vessels. Grain is thus shipped out of country elevators according to orders issued by the Board to its agents, the elevator operators. The Board also has authority to prohibit the movement of any kind of grain from an elevator. It may allocate railway cars to specific persons or elevators at specific delivery points. In the ordinary course of events, however, it refrains from being so specific, preferring to allocate shipping orders and cars en masse to its agents for the movement of grain from elevators situated in specified loading blocks.

At the present time only grain produced in the so-called designated area comes under the jurisdiction of the Board, but this amounts to most of the grain produced in Canada. The designated area comprises all of Manitoba, Saskatchewan and Alberta, a small area in the Rainy River region of Ontario near the Manitoba border, and the Peace River and Creston-Wynndel areas of British Columbia.

After the Board has received payment for the wheat, durum wheat, oats and barley delivered to it, all charges against those crops are deducted before the remaining money is distributed in the form of a final payment to producers. These cheques are mailed from six to nine months after the pool has been closed for deliveries at the end of the crop year. The amount of the final payment depends on the grade of the grain and the price per bushel obtained by the Board.

The Board has authority to prohibit the export or import of wheat, durum wheat, oats and barley or any of their products. It may also prohibit the transportation of these grains from one province to another. Only the

Board may contract for the sale of these grains if they are destined any place outside the province in which they are grown. It may grant licenses for wheat, durum wheat, oats and barley to be exported, imported or moved across provincial boundaries.

Temporary Wheat Reserves Act, Statutes of Canada 1956 Ch. 2

According to the Minister of Trade and Commerce at the time, this Act was passed by the government of Canada in 1956 in lieu of establishing a two-price system for grain.

The legislation makes the federal government responsible for paying the costs of storage and bank interest for 365 days on wheat and durum wheat in excess of 178 million bushels that is held by the Canadian Wheat Board and that is in commercial storage at the opening of business on August 1, the start of each crop year. The rates paid per bushel are those prevailing on July 31, the last day of the previous crop year.

The purpose of the Act is to save the Canadian Wheat Board and thereby producers in Western Canada from the payment of carrying costs on abnormally large stocks of wheat and durum wheat. Without the Act the Wheat Board might be forced into panic selling in violation of its duty to market wheat in an orderly manner.

The federal treasury each month pays to the Canadian Wheat Board one-twelfth of the carrying charges on the excess stocks. This amount is prorated in the accounting pools and it is eventually paid out to producers as part of the final payment.

If the Wheat Board does not hold more than 178 million bushels at the beginning of a crop year, no payments are to be made for that or any following crop year. The Temporary Wheat Reserves Act would become null and void. This is why the Act has the word "temporary" in its title.

National Transportation Act, Revised Statutes of Canada 1970 Ch. N-17

The National Transportation Act became law in 1967 with the declaration that "an economic and efficient transportation system, making the best use of all available modes of transportation at the lowest total cost, is essential to protect the interests of the users of transportation and to maintain the economic well-being and growth of Canada ...".

The Act dissolved the Board of Transport Commissioners for Canada and established the Canadian Transport Commission comprised of seventeen members. Under the new Commission several committees were formed. The one that affects grain production and marketing in Western Canada is the Railway Transport Committee. It has five members.

The commissioners are appointed by the government of Canada. They and their staff are federal civil servants.

The Commission administers the Railway Act. It regulates and licenses any mode of transport in Canada; it controls rates and tariffs and it dispenses transport subsidies voted by Parliament.

Any person believing that a particular rate set by a carrier is prejudicial to the public interest may apply to the Commission for permission to appeal the rate. If an appeal is allowed and hearings are held, representatives of shippers, consignees, municipal governments and provincial governments are entitled to appear. Should the Commission be convinced that the rate in question is against the public interest, it may make an order requiring the carrier to change the rate.

The greatest impact of the National Transportation Act on the grain production and marketing system comes from provisions covering the abandonment of uneconomic branch railway lines. The definition of branch lines includes all subsidiary, secondary, local or feeder lines and segments of branch lines.

The Commission sets the rules governing the filing of abandonment applications and the determination of whether or not the branch line in the application is truly eligible for abandonment on economic grounds.

The Commission holds public hearings on the question of branch line abandonment and listens to all persons who wish to present their views. On the basis of the application and the hearing, the Commission determines if the branch line is uneconomic, if it is likely to remain so and if it should be abandoned. Only lines that incurred an operating loss in the last accounting year may be permitted to discontinue.

A hearing may cover several applications at the same time if the branch lines are in the same or adjoining areas. The Commission has authority to decide the order in which applications are considered. It may, however, ask the railway company for its order of preference.

In determining whether or not a branch line may be abandoned, some factors considered by the Commission are as follows: the public interest; the actual losses incurred; the alternative transportation facilities; the adjustment period required; the disruption to the economy of the communities and the area; the effect on other lines and other carriers; the feasibility of maintaining the line or any part of it by a) changing the method of operation, b) inter-connecting with another line, c) sale or lease of the line or part of it to another railway company, d) exchanging running rights, and e) constructing connecting lines with lines of another company; the known or potential resources of the area; the seasonal restrictions on other forms of transport; and the future transportation needs of the area.

When the Commission decides that a branch line or a segment of it is to be abandoned, a closing date is set from one month to five years after the issuance of the abandonment order. The railway company must cease its operation of the branch line on the specified date.

Where the Commission is not satisfied that a line should be abandoned, it orders the railway to continue its operation; however the abandonment application is reconsidered periodically in the light of any new conditions that may arise.

Even though no applications for abandonment of certain branch lines have been filed, the Commission may recommend the rationalization of railway lines through the exchange of branch lines between companies, through the exchange of running rights on other lines and through the connecting of lines of rival companies. The Commission may also recommend to the rail companies that applications for abandonment of branch lines be filed.

Where the Commission has determined that a branch line is uneconomic but the line continues to operate, the railway company is entitled to claim for the actual loss accruing to that line in each fiscal year. The Commission in such cases examines the figures in the claim and recommends to the Minister of Finance that the particular rail company be paid the verified amount of the loss.

The federal cabinet may designate specific branch lines that may not be abandoned for fixed periods of time. This was done for the so-called protected lines that may not be closed before January 1, 1975. If losses are incurred in the operation of such lines, a railway company may claim for losses even though no application has been filed. On the recommendation of the Commission, the claim may be paid.

The National Transportation Act confirms the statutory freight rates on grain set by the "Act to Authorize a Subsidy for a Railroad through the Crows Nest Pass" S.C. 1897 Ch. 5. For the first time statutory freight rates are established on grain moving by rail from prairie points to the Pacific Coast ports and Churchill for export at the levels prevailing on December 31, 1966. To change these rates now requires an Act of Parliament. Before the National Transportation Act was passed, the export freight rates to the Pacific were set by an order of the Board of Transport Commissioners and the level of these rates was established having regard to the Crows Nest rates on grain moving eastward to the Lakehead.

APPENDIX

ESTIMATED NUMBERS OF QUARTER SECTIONS AND PERMIT HOLDERS BY DISTANCE
FROM DELIVERY POINTS BEFORE AND AFTER DIVERSION

Table A.1 shows the estimated number of quarter sections in each hinterland and their distances to a delivery point both before and after diversion. The number of quarter sections was obtained from hinterlands plotted on the basis of 1969-70 and the distance for each quarter section was measured in units of 1.0 mile after the manner described in the commentary for Table 3.15.

Table A.2 shows the estimated number of permit holders by their distance from a delivery point and it was derived from Table A.1 by converting quarter sections to numbers of permits. In both tables the delivery points are in two groups; namely: points assumed closed and points remaining open. This ordering is the same as Part IV.

Taking Peesane as an example, Table A.1 shows that in 1969-70 this point had 83 quarter sections in its hinterland and that 20 of them were within a distance of 2 miles. Peesane was assumed closed and its acreage diverted to the neighbouring points of Mistatim, Eldersley and Crooked River (Table 4.2). The distance of each quarter section from its new delivery point was then measured and only 2 quarter sections of the original Peesane hinterland remained within 2 miles of a delivery point. Since each Peesane permit holder farms an average of 2.85 quarter sections, 20 quarter sections represent about 7.0 permit holders and 2 quarter sections represent about 1.0 permit holder (Table A.2).

From Table A.2 it is not possible to infer that the permit holders hauling a certain distance before closure are hauling the same distance after closure. For instance: it cannot be determined whether the 3.0 Peesane permit holders hauling 7-8 miles before diversion are among the 8.5 permit holders hauling 7-8 miles after diversion.

To assist further in the interpretation of these tables, the following relationships are noted:

1. The subtotals before diversion of the points assumed closed plus the subtotals before diversion of the points remaining open equal the study area totals before diversion.
2. The subtotals after diversion of the points assumed closed plus the subtotals before diversion of the points remaining open equal the subtotals after diversion of the points remaining open.
3. Since the points remaining open after diversion account for all quarter sections (and all permit holders) their subtotals after diversion equal the study area totals after diversion.

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70

| Average No. of Quarters Per Permit | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | Total No. of Quarters | |
|--|--|-------------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|--|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | |
| - number of quarter sections - | | | | | | | | | | | | | | | | | | | | | | | |
| Points Assumed Closed | | | | | | | | | | | | | | | | | | | | | | | |
| 2.85 | 9 Peesane Before Diversion After Diversion | 20 2 | 23 2 | 28 20 | 9 24 | 0 18 | 3 14 | 3 2 | 1 1 | | | | | | | | | | | | | 83 83 | |
| 2.35 | 3 Golburn Before Diversion After Diversion | 24 14 | 12 14 | 7 14 | 2 13 | 0 4 | 0 1 | 0 1 | | | | | | | | | | | | | | 46 46 | |
| 2.98 | 10 Leacross Before Diversion After Diversion | 15 13 | 13 11 | 7 8 | 6 9 | 3 3 | | | | | | | | | | | | | | | | 44 44 | |
| 2.89 | 6 Carlea Before Diversion After Diversion | 26 1 | 28 26 | 12 24 | 3 12 | 3 7 | 2 2 | | | | | | | | | | | | | | | 72 72 | |
| 4.49 | 4 Lurgan Before Diversion After Diversion | 21 13 | 30 15 | 21 23 | 4 32 | 4 18 | 4 4 | 0 0 | 4 4 | | | | | | | | | | | | | 105 105 | |
| 2.46 | 7 Moose Range Before Diversion After Diversion | 17 4 | 23 29 | 17 28 | 3 28 | 0 1 | 0 1 | 0 0 | 0 0 | 3 3 | | | | | | | | | | | | 63 63 | |
| 3.99 | 5 New Osgoode Before Diversion After Diversion | 28 1 | 44 10 | 31 46 | 16 55 | 8 11 | 0 3 | 4 1 | 4 3 | 2 2 | | | | | | | | | | | | 131 131 | |

(continued)

See footnotes at end of table

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (continued)

| Average No. of Quarters Per Permit | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | Total No. of Quarters | |
|--|---|-------------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|------------|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | |
| - number of quarter sections - | | | | | | | | | | | | | | | | | | | | | | | |
| 3.03 | 20 Chelan Before Diversion After Diversion | 39 | 58 | 70 | 54 | 58 | 36 | 24 | 15 | 6 | 3 | | | | | | | | | | | | 363 363 |
| 2.74 | 23 Carragana Before Diversion After Diversion | 19 | 36 | 33 | 34 | 34 | 30 | 27 | 8 | 3 | | | | | | | | | | | | | 224 224 |
| 3.42 | 26 Bjorkdale Before Diversion After Diversion | 45 | 103 | 113 | 106 | 68 | 41 | 24 | 17 | 3 | | | | | | | | | | | | | 520 520 |
| 2.66 | 25 Weekes Before Diversion After Diversion | 24 | 35 | 45 | 56 | 53 | 45 | 24 | 5 | 0 | 0 | 0 | 5 | | | | | | | | | | 292 292 |
| 3.18 | 19 Somme Before Diversion After Diversion | 29 | 47 | 47 | 48 | 52 | 38 | 29 | 10 | 3 | 6 | 3 | 0 | 3 | | | | | | | | | 315 315 |
| 4.00 | 29 Zenon Park Before Diversion After Diversion | 45 | 81 | 109 | 77 | 37 | 20 | 16 | 4 | | | | | | | | | | | | | | 389 389 |
| 2.95 | 31 Porcupine Plain Before Diversion After Diversion | 44 | 82 | 80 | 81 | 86 | 102 | 77 | 38 | 18 | 6 | 0 | 3 | 3 | 3 | | | | | | | | 623 623 |

See footnotes at end of table

(continued)

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (continued)

| Average No. of Quarters Per Permit | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | Total No. of Quarters | |
|--|--|-------------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|------------|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | |
| - number of quarter sections - | | | | | | | | | | | | | | | | | | | | | | | |
| 3.43 | 30 Arborfield Before Diversion After Diversion | 45 | 86 | 96 | 86 | 96 | 93 | 76 | 49 | 27 | 10 | 17 | 10 | 3 | 3 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 703 703 |
| | Subtotal of Points Assumed Closed | 441 | 701 | 716 | 602 | 502 | 412 | 301 | 151 | 63 | 25 | 20 | 18 | 9 | 6 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 3,973 |
| | Before Diversion | 29 | 83 | 186 | 307 | 426 | 494 | 517 | 494 | 439 | 334 | 237 | 138 | 89 | 57 | 45 | 34 | 27 | 29 | 7 | 1 | 3,973 | |
| | After Diversion | | | | | | | | | | | | | | | | | | | | | | |
| | Points Remaining Open | | | | | | | | | | | | | | | | | | | | | | |
| 3.09 | 14 Nut Mountain Before Diversion After Diversion | 46 | 77 | 74 | 61 | 46 | 21 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | | | 341 341 | |
| | Before Diversion | 46 | 77 | 74 | 61 | 46 | 21 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | | | | |
| | After Diversion | | | | | | | | | | | | | | | | | | | | | | |
| 3.27 | 16 Valparaíso Before Diversion After Diversion | 46 | 65 | 65 | 56 | 33 | 19 | 26 | 33 | 13 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 368 368 | |
| | Before Diversion | 46 | 65 | 65 | 56 | 33 | 19 | 26 | 33 | 13 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | | |
| | After Diversion | | | | | | | | | | | | | | | | | | | | | | |
| 3.46 | 28 Archerwill Before Diversion After Diversion | 38 | 63 | 76 | 93 | 107 | 107 | 100 | 73 | 31 | 2 | | | | | | | | | | | 690 715 | |
| | Before Diversion | 38 | 63 | 76 | 93 | 107 | 107 | 100 | 73 | 31 | 2 | | | | | | | | | | | | |
| | After Diversion | | | | | | | | | | | | | | | | | | | | | | |
| 3.08 | 18 Sylvania Before Diversion After Diversion | 37 | 62 | 83 | 55 | 49 | 25 | 12 | 6 | 0 | 1 | | | | | | | | | | | 330 375 | |
| | Before Diversion | 37 | 62 | 83 | 55 | 49 | 25 | 12 | 6 | 0 | 1 | | | | | | | | | | | | |
| | After Diversion | | | | | | | | | | | | | | | | | | | | | | |
| 3.51 | 15 Eldersley Before Diversion After Diversion | 39 | 63 | 67 | 46 | 25 | 17 | 3 | 3 | 3 | 4 | 2 | | | | | | | | | | 272 332 | |
| | Before Diversion | 39 | 63 | 67 | 46 | 25 | 17 | 3 | 3 | 3 | 4 | 2 | | | | | | | | | | | |
| | After Diversion | 41 | 65 | 77 | 64 | 49 | 20 | 3 | 4 | 3 | 4 | 2 | | | | | | | | | | | |

See footnotes at end of table (continued)

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (continued)

| Average No. of Quarters Per Permit | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | | | Total No. of Quarters |
|--|-----------------|--------------------------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----|-------|-----------------------------|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | | |
| | | - number of quarter sections - | | | | | | | | | | | | | | | | | | | | | | |
| 4.19 | 34 Tisdale | 38 | 92 | 113 | 109 | 105 | 84 | 42 | 46 | 46 | 21 | 25 | 8 | 4 | 4 | 8 | 8 | 4 | 4 | 4 | 3 | 5* | 769 | |
| | After Diversion | 42 | 103 | 127 | 135 | 125 | 87 | 42 | 46 | 46 | 21 | 25 | 8 | 4 | 4 | 8 | 8 | 4 | 4 | 4 | 3 | 5* | 847 | |
| 3.16 | 32 Kelvington | 44 | 100 | 156 | 184 | 159 | 140 | 109 | 78 | 56 | 59 | 44 | 22 | 16 | 3 | | | | | | | | 1,170 | |
| | After Diversion | 44 | 100 | 156 | 184 | 159 | 140 | 109 | 78 | 56 | 59 | 48 | 38 | 43 | 41 | 38 | 34 | 27 | 29 | 7 | 1 | | 1,391 | |
| 4.00 | 17 McKague | 28 | 44 | 52 | 36 | 36 | 8 | 4 | | | | | | | | | | | | | | | 208 | |
| | After Diversion | 28 | 46 | 57 | 51 | 62 | 68 | 66 | 45 | 32 | 8 | | | | | | | | | | | | 463 | |
| 3.41 | 13 Armley | 7 | 14 | 34 | 21 | 13 | 1 | | | | | | | | | | | | | | | | 90 | |
| | After Diversion | 7 | 39 | 54 | 49 | 28 | 1 | | | | | | | | | | | | | | | | 178 | |
| 3.44 | 12 Runciman | 24 | 55 | 41 | 7 | 3 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | | | | | | | | | 139 | |
| | After Diversion | 46 | 64 | 54 | 37 | 41 | 15 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | | | | | | | | | 266 | |
| 3.64 | 11 Clemenceau | 40 | 51 | 15 | 7 | 4 | | | | | | | | | | | | | | | | | 117 | |
| | After Diversion | 40 | 53 | 17 | 21 | 19 | 33 | 55 | 69 | 45 | 38 | 23 | 2 | | | | | | | | | | 415 | |
| 3.21 | 24 Mistatim | 45 | 80 | 96 | 90 | 51 | 42 | 26 | 3 | 3 | | | | | | | | | | | | | 436 | |
| | After Diversion | 45 | 80 | 96 | 91 | 64 | 89 | 106 | 93 | 96 | 91 | 77 | 53 | 29 | 9 | | | | | | | | 1,019 | |

See footnotes at end of table

(continued)

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (concluded)

| Average No. of Quarters Per Permit | Delivery Points | | Distance in miles | | | | | | | | | | | | | | | | | | | | | | | | Total No. of Quarters |
|--|-----------------|------------------|--------------------------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|-----------------------------|
| | | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | | | | |
| | | | - number of quarter sections - | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.48 | 27 | Aylsham | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Before Diversion | 45 | 94 | 90 | 59 | 52 | 31 | 10 | 7 | 7 | 4 | 4 | 4 | 3 | 1 | 1 | | | | | | | | | | 412 |
| | | After Diversion | 46 | 104 | 148 | 134 | 136 | 112 | 50 | 33 | 34 | 4 | 4 | 4 | 3 | 1 | 1 | | | | | | | | | | 814 |
| 3.18 | 22 | Crooked River | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Before Diversion | 38 | 44 | 32 | 29 | 22 | 16 | 10 | 0 | 0 | 3 | | | | | | | | | | | | | | | 194 |
| | | After Diversion | 38 | 49 | 58 | 81 | 124 | 141 | 105 | 78 | 66 | 69 | 48 | 22 | 9 | 2 | | | | | | | | | | | 890 |
| 3.38 | 33 | Carrot River | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Before Diversion | 44 | 95 | 115 | 122 | 118 | 132 | 152 | 155 | 125 | 95 | 81 | 91 | 74 | 37 | 10 | 0 | 3 | | | | | | | | 1,449 |
| | | After Diversion | 44 | 97 | 139 | 154 | 158 | 183 | 229 | 227 | 207 | 148 | 101 | 106 | 76 | 37 | 12 | 0 | 3 | | | | | | | | 1,915 |
| 2.96 | 21 | Prairie River | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Before Diversion | 33 | 56 | 65 | 71 | 38 | 41 | 9 | 6 | 3 | 0 | 0 | 3 | | | | | | | | | | | | | 325 |
| | | After Diversion | 33 | 57 | 65 | 78 | 82 | 104 | 113 | 109 | 95 | 78 | 65 | 39 | 22 | 8 | 5 | | | | | | | | | | 953 |
| Subtotal of Points Remaining Open | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Before Diversion | 592 | 1055 | 1174 | 1046 | 861 | 684 | 509 | 422 | 290 | 195 | 159 | 128 | 100 | 45 | 20 | 8 | 7 | 4 | 6 | 5 | | | | | 7,310 |
| | | After Diversion | 621 | 1138 | 1360 | 1353 | 1287 | 1178 | 1026 | 916 | 729 | 529 | 396 | 266 | 189 | 102 | 65 | 42 | 34 | 33 | 13 | 6 | | | | | 11,283 |
| STUDY AREA TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Before Diversion | 1033 | 1756 | 1890 | 1648 | 1363 | 1096 | 810 | 573 | 353 | 220 | 179 | 146 | 109 | 51 | 20 | 8 | 7 | 9 | 6 | 6 | | | | | 11,283 |
| | | After Diversion | 621 | 1138 | 1360 | 1353 | 1287 | 1178 | 1026 | 916 | 729 | 529 | 396 | 266 | 189 | 102 | 65 | 42 | 34 | 33 | 13 | 6 | | | | | 11,283 |

* Includes three quarter sections 42 miles from Tisdale.

^a Calculated by dividing the average number of acres per permit (mean size shown in Table 2.11) by 160 acres.

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70

| Actual No. 1969-70 Permits | Delivery points | Distance in miles | | | | | | | | | | | | | | | | | | | Estimated Total No. of Permits | | |
|---|--|-------------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------------|---------------|--|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | | 39 & 40 | |
| - number of permit holders ^a - | | | | | | | | | | | | | | | | | | | | | | | |
| Points Assumed Closed | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 9 Peesane Before Diversion After Diversion | 7.0 1.0 | 8.0 0.5 | 10.0 7.0 | 3.0 8.5 | 0.0 6.0 | 1.0 5.0 | 0.0 0.5 | 0.5 0.5 | | | | | | | | | | | | | 29.0 29.0 | |
| 20 | 3 Golburn Before Diversion After Diversion | 10.0 6.0 | 5.0 6.0 | 3.0 6.0 | 1.0 5.0 | 0.0 2.0 | 0.0 0.5 | 0.0 0.5 | | | | | | | | | | | | | | 19.5 19.5 | |
| 16 | 10 Leacross Before Diversion After Diversion | 5.0 4.5 | 4.5 3.5 | 2.5 3.0 | 2.0 3.0 | 1.0 1.0 | | | | | | | | | | | | | | | | 15.0 15.0 | |
| 26 | 6 Carlea Before Diversion After Diversion | 9.0 0.5 | 9.5 9.0 | 4.5 8.0 | 1.0 4.0 | 1.0 2.5 | 1.0 | | | | | | | | | | | | | | | 25.0 25.0 | |
| 27 | 4 Lurgan Before Diversion After Diversion | 4.5 2.5 | 6.5 3.5 | 4.5 5.0 | 4.5 7.0 | 1.0 4.0 | 1.0 1.0 | 0.0 0.0 | 1.0 | | | | | | | | | | | | | 23.0 23.0 | |
| 28 | 7 Moose Range Before Diversion After Diversion | 7.0 0.0 | 9.5 2.0 | 7.0 11.5 | 1.0 11.0 | 0.0 0.5 | 0.0 0.5 | 0.0 0.0 | 0.0 1.0 | | | | | | | | | | | | | 25.5 25.5 | |
| 35 | 5 New Osgoode Before Diversion After Diversion | 7.0 0.5 | 11.0 0.5 | 7.5 2.5 | 4.0 10.5 | 2.0 13.5 | 0.0 3.0 | 1.0 1.0 | 0.5 0.5 | 0.5 0.5 | 0.5 0.5 | | | | | | | | | | | 32.5 32.5 | |

(continued)

See footnotes at end of table

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (continued)

| Actual No. 1969-70 Permits | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | Estimated Total No. of Permits | |
|----------------------------------|---|---|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------------|----------------|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | |
| | | - number of permit holders ^a - | | | | | | | | | | | | | | | | | | | | | |
| 123 | 20 Chelan Before Diversion After Diversion | 13.0 | 19.0 | 23.0 | 18.0 | 19.0 | 12.0 | 8.0 | 5.0 | 2.0 | 1.0 | | | | | | | | | | | | 120.0 120.0 |
| 82 | 23 Carragana Before Diversion After Diversion | 7.0 | 13.0 | 12.0 | 12.5 | 12.0 | 11.0 | 10.0 | 3.0 | 1.0 | | | | | | | | | | | | | 81.5 81.5 |
| 154 | 26 Bjorkdale Before Diversion After Diversion | 13.0 | 30.0 | 33.0 | 31.0 | 20.0 | 12.0 | 7.0 | 5.0 | 1.0 | | | | | | | | | | | | | 152.0 152.0 |
| 115 | 25 Weekes Before Diversion After Diversion | 9.0 | 13.0 | 17.0 | 21.0 | 20.0 | 17.0 | 9.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.5 | | | | | | | | | 110.0 110.0 |
| 98 | 19 Somme Before Diversion After Diversion | 9.0 | 15.0 | 15.0 | 15.0 | 16.0 | 12.0 | 9.0 | 3.0 | 1.0 | 2.0 | 1.0 | 0.0 | 1.0 | 1.0 | | | | | | | | 99.0 99.0 |
| 101 | 29 Zenon Park Before Diversion After Diversion | 11.5 | 20.0 | 27.5 | 19.5 | 9.5 | 5.0 | 4.0 | 1.0 | | | | | | | | | | | | | | 98.0 98.0 |
| 216 | 31 Porcupine Plain Before Diversion After Diversion | 15.0 | 28.0 | 27.0 | 27.0 | 29.0 | 35.0 | 26.0 | 13.0 | 6.0 | 2.0 | 0.0 | 1.0 | 1.0 | 1.0 | 13.0 | 10.5 | 9.0 | 10.0 | 2.0 | | | 211.0 211.0 |

See footnotes at end of table (continued)

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (continued)

| Actual No. 1969-70 Permits | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | Estimated Total No. of Permits | |
|---|--|-------------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------------|--------------------|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | |
| - number of permit holders ^a - | | | | | | | | | | | | | | | | | | | | | | | |
| 217 | 30 Arborfield Before Diversion After Diversion | 13.0 | 25.0 | 28.0 | 25.0 | 28.0 | 27.0 | 22.0 | 14.0 | 8.0 | 3.5 | 5.5 | 3.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | | | 205.0 205.0 |
| 1,288 | Subtotal of Points Assumed Closed Before Diversion After Diversion | 140.0 | 217.0 | 221.5 | 185.5 | 158.5 | 133.0 | 96.0 | 47.5 | 20.0 | 8.5 | 6.5 | 6.0 | 3.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | | | 1,246.0 1,246.0 |
| Points Remaining Open | | | | | | | | | | | | | | | | | | | | | | | |
| 114 | 14 Nut Mountain Before Diversion After Diversion | 15.0 | 25.0 | 24.0 | 19.5 | 15.0 | 6.5 | 2.0 | 3.0 | | | | | | | | | | | | | | 110.0 110.0 |
| 115 | 16 Valparaiso Before Diversion After Diversion | 14.0 | 20.0 | 20.0 | 17.0 | 10.0 | 6.0 | 8.0 | 10.0 | 4.0 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | | | 113.0 113.0 |
| 201 | 28 Archerwill Before Diversion After Diversion | 11.0 | 18.0 | 22.0 | 27.0 | 31.0 | 31.0 | 29.0 | 21.0 | 9.0 | | | | | | | | | | | | | 199.0 206.5 |
| 110 | 18 Sylvania Before Diversion After Diversion | 12.0 | 20.0 | 27.0 | 18.0 | 16.0 | 8.0 | 4.0 | 2.0 | | | | | | | | | | | | | | 107.0 125.0 |
| 80 | 15 Eldersley Before Diversion After Diversion | 11.0 | 18.0 | 19.0 | 13.0 | 7.0 | 5.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | | 78.0 94.5 |

See footnotes at end of table (continued)

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (continued)

| Actual No. 1969-70 Permits | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Estimated Total No. of Permits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - number of permit holders ^a - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 189 | 34 Tisdale Before Diversion After Diversion | 9.5 10.5 | 22.0 24.5 | 27.0 30.0 | 26.0 32.5 | 25.0 30.5 | 20.0 20.5 | 10.0 10.0 | 11.0 11.0 | 11.0 11.0 | 5.0 5.0 | 6.0 6.0 | 2.0 2.0 | 1.0 1.0 | 1.0 1.0 | 2.0 2.0 | 2.0 2.0 | 1.0 1.0 | 1.0 1.0 | 1.0 1.0 | 0.5 0.5 | 1.0 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 381 | 32 Kelvington Before Diversion After Diversion | 14.0 14.0 | 32.0 32.0 | 49.0 49.0 | 58.0 58.0 | 50.0 50.0 | 44.0 44.0 | 34.0 34.0 | 25.0 25.0 | 18.0 18.0 | 19.0 19.0 | 14.0 15.0 | 7.0 12.5 | 5.0 14.0 | 1.0 14.0 | 1.0 13.0 | 11.5 11.5 | 9.0 9.0 | 10.0 10.0 | 2.5 2.5 | 0.5 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | 17 McKague Before Diversion After Diversion | 7.0 7.0 | 11.0 11.5 | 13.0 14.5 | 9.0 13.5 | 9.0 16.5 | 2.0 20.0 | 1.0 20.0 | 14.5 14.5 | 11.0 11.0 | 2.5 2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 13 Armley Before Diversion After Diversion | 2.0 2.0 | 4.0 12.5 | 10.0 17.0 | 6.0 14.5 | 4.0 8.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 12 Runciman Before Diversion After Diversion | 7.0 13.0 | 16.0 18.5 | 12.0 16.0 | 2.0 9.0 | 1.0 11.0 | 0.0 0.0 | 0.0 0.0 | 1.0 1.0 | 1.0 1.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 1.0 1.0 | 1.0 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 11 Clemenceau Before Diversion After Diversion | 11.0 11.0 | 14.0 15.0 | 4.0 5.0 | 2.0 7.5 | 1.0 6.5 | 12.5 12.5 | 20.5 20.5 | 25.5 25.5 | 16.0 16.0 | 13.5 13.5 | 8.0 8.0 | 1.0 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 136 | 24 Mistatim Before Diversion After Diversion | 14.0 14.0 | 25.0 25.0 | 30.0 30.0 | 28.0 28.5 | 16.0 20.5 | 13.0 28.5 | 8.0 34.5 | 1.0 31.0 | 1.0 31.5 | 30.5 30.5 | 26.0 26.0 | 17.5 17.5 | 10.0 10.0 | 3.0 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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See footnotes at end of table (continued)

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, TISDALE REGION, 1969-70 (concluded)

| Actual No. 1969-70 Permits | Delivery Points | Distance in miles | | | | | | | | | | | | | | | | | | | | Estimated Total No. of Permits | |
|----------------------------------|-----------------|---|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------------|--|
| | | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 & 16 | 17 & 18 | 19 & 20 | 21 & 22 | 23 & 24 | 25 & 26 | 27 & 28 | 29 & 30 | 31 & 32 | 33 & 34 | 35 & 36 | 37 & 38 | 39 & 40 | | |
| | | - number of permit holders ^a - | | | | | | | | | | | | | | | | | | | | | |
| 124 | 27 | Aylsham | | | | | | | | | | | | | | | | | | | | 118.0 | |
| | | Before Diversion | 13.0 | 27.0 | 26.0 | 17.0 | 15.0 | 9.0 | 3.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | |
| | | After Diversion | 13.5 | 30.5 | 42.5 | 40.0 | 37.5 | 31.0 | 14.0 | 9.0 | 9.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | |
| 63 | 22 | Crooked River | | | | | | | | | | | | | | | | | | | | 61.0 | |
| | | Before Diversion | 12.0 | 14.0 | 10.0 | 9.0 | 7.0 | 5.0 | 3.0 | 0.0 | 0.0 | 1.0 | | | | | | | | | | | |
| | | After Diversion | 12.0 | 15.5 | 19.0 | 24.0 | 34.5 | 41.0 | 29.0 | 22.0 | 19.0 | 20.0 | 14.0 | 6.5 | 2.5 | 0.5 | | | | | | | |
| 447 | 33 | Carrot River | | | | | | | | | | | | | | | | | | | | 259.5 | |
| | | Before Diversion | 13.0 | 28.0 | 34.0 | 36.0 | 35.0 | 39.0 | 45.0 | 46.0 | 37.0 | 28.0 | 24.0 | 27.0 | 22.0 | 11.0 | 3.0 | 0.0 | 1.0 | | | | |
| | | After Diversion | 13.0 | 29.0 | 43.5 | 47.0 | 46.5 | 54.0 | 67.5 | 67.0 | 61.0 | 43.5 | 30.0 | 29.5 | 22.5 | 11.0 | 3.5 | 0.0 | 1.0 | | | | |
| 113 | 21 | Prairie River | | | | | | | | | | | | | | | | | | | | 429.0 | |
| | | Before Diversion | 11.0 | 19.0 | 22.0 | 24.0 | 13.0 | 14.0 | 3.0 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | | | | | | | | | |
| | | After Diversion | 11.0 | 19.5 | 22.0 | 26.5 | 27.5 | 35.0 | 38.0 | 36.0 | 32.5 | 27.0 | 22.0 | 13.0 | 8.0 | 2.5 | 1.5 | | | | | | |
| 2,228 | | Subtotal of Points Remaining Open | | | | | | | | | | | | | | | | | | | | 110.0 | |
| | | Before Diversion | 176.5 | 313.0 | 349.0 | 311.5 | 255.0 | 202.5 | 151.0 | 125.0 | 85.0 | 57.0 | 47.0 | 38.0 | 30.0 | 13.0 | 5.0 | 2.0 | 2.0 | 1.0 | 1.5 | 1.0 | |
| | | After Diversion | 185.0 | 341.5 | 409.0 | 403.0 | 376.0 | 352.5 | 313.0 | 282.5 | 224.5 | 165.0 | 124.0 | 83.0 | 60.0 | 32.0 | 20.0 | 13.5 | 11.0 | 11.0 | 4.0 | 1.5 | |
| 3,516 | | STUDY AREA TOTAL | | | | | | | | | | | | | | | | | | | | 2,166.0 | |
| | | Before Diversion | 316.5 | 530.0 | 570.5 | 497.0 | 413.5 | 335.5 | 247.0 | 172.5 | 105.0 | 65.5 | 53.5 | 44.0 | 33.0 | 15.0 | 5.0 | 2.0 | 2.0 | 1.5 | 1.0 | | |
| | | After Diversion | 185.0 | 341.5 | 409.0 | 403.0 | 376.0 | 352.5 | 313.0 | 282.5 | 224.5 | 165.0 | 124.0 | 83.0 | 60.0 | 32.0 | 20.0 | 13.5 | 11.0 | 11.0 | 4.0 | 1.5 | |
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^aThe number of permit holders was calculated from Table A.1 as follows: number of quarter sections divided by the average number of quarters per permit (rounded to the nearest one half permit).

Communities Other Than Grain Delivery Points in the Tisdale Region

Although these studies of economic geography in the prairie provinces are primarily concerned with communities that serve as grain collection points, there is at least an awareness of other social and economic entities or activities in any given region. One of these is the community that is not a delivery point for grain.

Usually it has been found that a list of past and present grain delivery points in a particular area account for all existent communities. This, however, is not the case in the Tisdale region. Table A.3 lists six places which are not grain delivery points and notes their several characteristics. Populations range from 10 at Chagoness and Steen to 187 at Reserve. Chagoness still has a post office and the other five communities had post offices until quite recently. While a map of the study area shows the names of more places that are not delivery points for grain, fewer than 10 persons live in any of them.

In the context of rail line and grain handling rationalization, it is interesting to note that, though all communities except Chagoness are located on rail lines, only Dillabough and Steen are former grain delivery points. The last grain receipts at Dillabough occurred in the 1956-57 crop year and at Steen in the 1958-59 crop year. It can be said that the six communities in Table A.3 do not depend on any grain delivery function for their continued existence.

TABLE A.3 COMMUNITIES OTHER THAN GRAIN DELIVERY POINTS IN THE TISDALE REGION

| Community | Class or Legal Status | Population | | Location R.M. | Post Office 1970-71 | Rail Line |
|------------|-----------------------------|------------|------|---------------------|------------------------|--------------|
| | | 1969 | 1971 | | | |
| Algrove | H | 70 | 26 | 397. Barrier Valley | Cls. 30/6/69 | CP |
| Bertwell | H | 12 | 52 | 944. L.I.D. | Cls. 31/12/69 | CN |
| Chagoness | S | 10 | 10 | 398. Pleasantdale | Rev. \$116.00 | - |
| Dillabough | H | 25 | 12 | 395. Porcupine | Cls. 13/3/70 | CN |
| Reserve | H | 187 | 153 | 944. L.I.D. | Cls. 30/4/70 | CN |
| Steen | S | 10 | 5 | 426. Bjorkdale | Cls. 30/6/64 | CN |

Cls. - Closed day/month/year

H - unorganized hamlet with population of more than 10

Rev. - postal revenue during fiscal year 1970-71

S - settlement with population of 10 or less

Source: Directory of Hamlets and Settlements, 1969 and 1972, Saskatchewan
Department of Municipal Affairs, Regina.
Canada Post Office Department, Saskatoon.

Hospital Services in the Study Area

Six public hospitals are located in the study area. Table A.4 shows the rated bed size, number of inpatients treated per year and the estimated number of people served by each hospital. In 1966 the total population in the study area was 29,441 (Table 1.6). The apportioned population served in 1966 by the six hospitals was estimated to be 21,273.

TABLE A.4 HOSPITAL SERVICES IN THE STUDY AREA

| Year | Rated Bed Size ^a | Inpatients Treated ^b | Apportioned Population ^c |
|--|--------------------------------|------------------------------------|--|
| <i>Zenon Park, Notre Dame de L'Assomption Hospital</i> | | | |
| 1963 | 13 | 290 | 1,410 |
| 1964 | 13 | 342 | 1,249 |
| 1965 | 13 | 469 | 1,172 |
| 1966 | 13 | 411 | 1,158 |
| 1967 | 13 | 403 | 1,199 |
| 1968 | 13 | 303 | 1,145 |
| 1969 | 13 | 282 | 1,099 |
| 1970 | 13 | 348 | 1,017 |
| 1971 | 10 | 268 | 818 |
| <i>Arborfield, Arborfield Union Hospital</i> | | | |
| 1963 | 8 | 211 | 1,026 |
| 1964 | 8 | 325 | 1,207 |
| 1965 | 8 | 382 | 1,100 |
| 1966 | 8 | 327 | 1,165 |
| 1967 | 8 | 375 | 1,147 |
| 1968 | 8 | 197 | 791 |
| 1969 | 8 | 252 | 959 |
| 1970 | 8 | 315 | 1,053 |
| 1971 | 8 | 362 | 1,066 |
| <i>Porcupine Plain, Porcupine-Carragana Union Hospital</i> | | | |
| 1963 | 18 | 720 | 3,093 |
| 1964 | 18 | 638 | 2,797 |
| 1965 | 18 | 929 | 3,307 |
| 1966 | 18 | 1,009 | 3,749 |
| 1967 | 18 | 1,168 | 3,872 |
| 1968 | 18 | 792 | 3,056 |
| 1969 | 20 | 873 | 3,298 |
| 1970 | 20 | 822 | 2,996 |
| 1971 | 20 | 884 | 2,954 |
| <i>Kelvington, Kelvington Union Hospital</i> | | | |
| 1963 | 19 | 680 | 3,339 |
| 1964 | 19 | 817 | 3,218 |
| 1965 | 19 | 819 | 2,771 |
| 1966 | 19 | 869 | 3,043 |
| 1967 | 19 | 693 | 2,673 |
| 1968 | 19 | 867 | 3,006 |
| 1969 | 20 | 948 | 3,010 |
| 1970 | 20 | 960 | 2,853 |
| 1971 | 22 | 936 | 2,666 |

See footnotes at end of table

(continued)

TABLE A.4 HOSPITAL SERVICES IN THE STUDY AREA (concluded)

| Year | Rated Bed Size ^a | Inpatients Treated ^b | Apportioned Population ^c |
|--|--------------------------------|------------------------------------|--|
| <i>Carrot River, Carrot River Union Hospital</i> | | | |
| 1963 | 20 | 706 | 3,847 |
| 1964 | 20 | 845 | 3,826 |
| 1965 | 20 | 765 | 2,889 |
| 1966 | 20 | 707 | 2,729 |
| 1967 | 20 | 612 | 2,564 |
| 1968 | 20 | 589 | 2,087 |
| 1969 | 20 | 589 | 2,074 |
| 1970 | 20 | 626 | 2,113 |
| 1971 | 18 | 714 | 2,162 |
| <i>Tisdale, St. Therese Hospital</i> | | | |
| 1963 | 75 | 2,697 | 10,812 |
| 1964 | 75 | 2,667 | 10,957 |
| 1965 | 75 | 2,400 | 9,604 |
| 1966 | 75 | 2,248 | 9,393 |
| 1967 | 75 | 1,961 | 8,357 |
| 1968 | 75 | 1,785 | 8,215 |
| 1969 | 75 | 1,653 | 7,816 |
| 1970 | 66 | 1,833 | 7,677 |
| 1971 | 68 | 1,933 | 7,673 |

^aThe maximum number of beds which, according to the Saskatchewan Department of Health, should be set up in the hospital based on local need combined with physical facilities.

^bThe number of inpatient separations by discharge or death during the year.

^cFor a given hospital, rural municipality and calendar year, the apportioned population is calculated by dividing the number of municipal residents discharged from the given hospital by the total number of discharges from all Saskatchewan public hospitals of persons from the given municipality, multiplied by the total population of the municipality. This is said to be the population served by the hospital.

Source: Saskatchewan Hospital Services Plan, Department of Health, Regina, Saskatchewan.

Chronology of Government Legislation, Court Rulings, Board Orders, Regulations, etc., Having an Impact on Production and Marketing of Grain in Western Canada

- 1872 Dominion Land Act S.C. 1872, C.6.
- 1876 First export of wheat from the Prairies.
- 1878 St. Paul Railway entered Winnipeg.
- 1881 First elevator built in Western Canada.
- 1881 Canadian Pacific Railway completed between Fort William and Winnipeg.
- 1882 First cargo of wheat left the Lakehead (Fort William).
- 1883 First elevator built at the Lakehead (Port Arthur).
- 1885 First all-Canadian rail link (Canadian Pacific) between the Prairies and Pacific Coast opened.
- 1887 Formation of the Winnipeg Grain Exchange.
- 1897 An Act to authorize a subsidy for a Railroad through the Crows Nest Pass S.C. 1897, C.5. (Crows Nest Freight rates on western grain moving to Fort William).
- 1899 Royal Commission on the Shipment and Transportation of Grain.
- 1900 Manitoba Grain Act S.C. 1900, C.39.
- 1904 Building of the Western portion of the Grand Trunk Pacific to Prince Rupert. (Completed 1912).
- 1904 Grain Inspection Act S.C. 1904, C.15.
- 1905 Introduction of Marquis Wheat.
- 1906 Royal Commission on the Grain Trade in Canada.
- 1908 Winnipeg Grain Exchange reformed to become an unincorporated voluntary association.
- 1911 Act creating the Saskatchewan Co-operative Elevator Company.
- 1912 Canada Grain Act S.C. 1912, C.27. et seq.
- 1912 First Canadian Government Elevator opened, at Port Arthur.

- 1914 First Canadian Government Interior Terminal Elevators opened, at Moose Jaw and Saskatoon.
- 1915 Panama Canal opened.
- 1916 First Canadian Government Elevator on the Pacific Coast opened.
- 1916 United Grain Growers formed from amalgamation of three grain growers associations and the Alberta Farmers' Co-op Elevator Company.
- 1917 Board of Grain Supervisors P.C. 1917-1552 (to June 6, 1919).
- 1919 Soldiers Settlement Act S.C. 1919, C.19. et seq.
- 1919 Canadian Wheat Board Act S.C. 1919, C.9 (to 1922).
- 1923 Royal Grain Inquiry Commission P.C. 1923-774.
- 1923 Prairie Wheat Pools formed.
- 1925 Major revision of the Canada Grain Act.
- 1928 Select Standing Committee of the House of Commons dealt with the grading of wheat by protein content.
- 1929 Hudson Bay Railway completed to Port Churchill.
- 1929 Welland Ship Canal expanded and modernized.
- 1929 Prairie Provincial Governments guaranteed bank loans to the three Wheat Pools.
- 1930 Dominion Government provided financial assistance to the banks and the provincial governments covering grain loans.
- 1930 Mr. John I. McFarland appointed by the Federal Government as general manager of the Canadian Co-operative Wheat Producers' Ltd.
- 1930 Revision of the Canada Grain Act S.C. 1930, C.5. et seq.
- 1931 Prairie Wheat Pools separated from their Central Selling Agency, the Canadian Co-operative Wheat Producers Ltd.
- 1931 An Act Respecting Wheat S.C. 1931, C.60. (5¢ freight subsidy).
- 1931 Commission to Inquire into Trading in Grain Futures P.C. 1931-853.
- 1931 Grain Marketing Act S.S. 1931, C.87 (100% pool).
- 1931 First shipment of wheat through Port Churchill.
- 1932 Ottawa Economic Conference - Canada obtained preference on wheat in British market.

- 1933 United States legislation, the Agricultural Adjustment Act; parity prices established.
- 1933 Commodity Credit Corporation established in U.S.A.
- 1933 London Wheat Conference and subsequent International Wheat Agreement.
- 1934 Farmers' Creditors Arrangement Act S.C. 1934, C.53.
- 1934 Natural Products Marketing Act S.C. 1934, C.57.
- 1934 Natural Products Marketing Act ruled ultra vires of the Dominion Government by the Supreme Court of Canada.
- 1934 Emergency Wheat Control Act S.M. 1934, C.48.
- 1935 Prairie Farm Rehabilitation Act S.C. 1935, C.23 et seq.
- 1935 Canadian Wheat Board Act S.C. 1935, C.53 et seq.
- 1936 Royal Grain Inquiry Commission P.C. 1936-1577.
- 1938 Canada-United States trade agreement (abrogated British preference on Canadian Wheat).
- 1939 Agricultural Products Co-operative Marketing Act S.C. 1939, C.28 et seq.
- 1939 Grain Futures Act S.C. 1939, C.31.
- 1939 Prairie Farm Assistance Act S.C. 1939, C.50 et seq.
- 1939 Canadian Wheat Board opened Eastern office in Toronto.
- 1940 First implementation of delivery quota system of control over western grain marketing.
- 1941 Wheat Acreage Reduction P.C. 1941-3047.
- 1941 Feed Freight Assistance Regulation P.C. 1941-7523. et seq.
- 1942 Wheat Acreage Reduction Act S.C. 1942, C.10.
- 1942 Veterans Land Act S.C. 1942-43, C.33. et seq.
- 1943 Wheat Futures Trading discontinued on the Winnipeg Grain Exchange; Canadian Wheat Board made exclusive marketing agency for wheat.
- 1944 Farm Improvement Loans Act S.C. 1944, C.41. et seq.
- 1944 Agricultural Prices Support Act S.C. 1944, C.29.

- 1944 Canadian Wheat Board Act amended to exempt the Board from authority in marketing Eastern Wheat P.C. 1944-5640.
- 1945 The Food and Agriculture Organization of the United Nations Act, S.C. 1945, C.4. et seq.
- 1946 United Kingdom Wheat Agreement.
- 1948 Canadian Wheat Board empowered to control interprovincial movement of wheat products.
- 1948 International Wheat Agreement (No. 1) P.C. 1948-1016.
- 1949 Manitoba Coarse Grain Marketing Control Act R.S.M. 1954, C.41.
- 1949 Saskatchewan Grain Marketing Act R.S.S. 1953, C.241.
- 1949 Alberta Coarse Grain Marketing Control Act S.A. 1949, C.25.
- 1949 Marketing of oats and barley brought under the Canadian Wheat Board.
- 1951 Appropriations Act No. 2 S.C. 1951, C.2, provided for a grant of \$65 million to the 1945-49 Pool as settlement to Western grain producers for participation in the United Kingdom Wheat Agreement.
- 1951 St. Lawrence Seaway Authority Act S.C. 1951, C.24. et seq.
- 1951 Prairie Grain Producers Interim Financing Act S.C. 1951, C.20. et seq.
- 1952 Extension of Colombo Plan to wheat aid.
- 1953 International Wheat Agreement (No. 2) P.C. 1953-556.
- 1953 Application of accelerated depreciation for income tax purposes to commercial grain storage facilities.
- 1954 Canada-Japan trade agreement extended M.F.N. rates to Japan and opened Japanese market to Canadian grain.
- 1954 Inauguration of United States Public Law 480.
- 1955 Churchill elevator capacity doubled.
- 1955 GATT resolution on surplus disposal.
- 1956 Canada-USSR trade agreement extended M.F.N. rates to U.S.S.R., which government agreed to buy 1.2 million tons of Canadian Wheat.
- 1956 First shipment of flour to United Nations Relief and Works Agency.
- 1956 Prairie Grain Producers Interim Financing Act, S.C. 1956, C.1.

- 1956 Temporary Wheat Reserves Act S.C. 1956, C.2.
- 1956 International Wheat Agreement (No. 3) P.C. 1953-734.
- 1957 Prairie Grain Advance Payments Act S.C. 1957, C.2.
- 1957 Establishment of FAO Group on Grains.
- 1957 Agricultural Stabilization Act S.C. 1957, C.22. Succeeded the Agricultural Prices Support Act.
- 1957 Treaty of Rome established the European Common Market.
- 1958 First time that the Canadian Wheat Board failed to make a final payment (Oats Pool, 1956-57).
- 1958 Grain Farmers march on Ottawa.
- 1958 Western Grain Producers Acreage Payment Regulations P.C. 1958-1442.
- 1958 Bracken Enquiry into the Distribution of Railway Boxcars P.C. 1958-181.
- 1959 Supreme Court upheld the Board of Transport Commissioners' ruling that demurrage charges on boxcars be permitted at terminal elevators after ten days.
- 1959 Cabinet suspended Board of Transport Commissioners' ruling on demurrage.
- 1959 International Wheat Agreement (No. 4) P.C. 1959-480.
- 1959 Formal institution of Canada-United States Quarterly Meetings on wheat and related matters.
- 1959 Food for Peace Conference (Wheat Utilization Committee).
- 1959 Bracken formula for boxcar allocation instituted.
- 1959 St. Lawrence Seaway opened.
- 1959 Canadian Wheat Board pricing policy changed to take advantage of new freight conditions consequent on St. Lawrence Seaway opening.
- 1959 Crop Insurance Act S.C. 1959, C.42 et seq. Crop Insurance Test Areas Act S.M. 1959, C.14; the Saskatchewan Crop Insurance Act S.S. 1960, C.57.
- 1959 Royal Commission on Transportation P.C. 1959-577.
- 1960 Prairie Grain Provisional Payments Act S.C. 1960, C.2.

- 1960 Prairie Grain Loans Act S.C. 1960, C.1.
- 1960 Freedom from Hunger campaign.
- 1960 Western Grain Producers Acreage Payment Regulations, 1960.
- 1960 Addition of Title IV to United States Public Law 480.
- 1960 Canadian Wheat Board instituted off-quota feed mill policy.
- 1961 Railway Act amended to include rapeseed as a grain.
- 1961 Report of the Royal Commission on Transportation (MacPherson) recommended branch line abandonment and subsidy to cover losses on grain transport.
- 1961 Agricultural Rehabilitation and Development Act S.C. 1961, C.30.
- 1961 Sale of wheat to China under long term credits negotiated by the Canadian Wheat Board.
- 1962 EEC Ministerial decision implemented the Common Agricultural Policy.
- 1962 Western Grain Producers Acreage Payment Regulations, 1962.
- 1962 Extension of U.S.A. Title IV P.L. 480 provisions to the private grain trade.
- 1962 Canadian dollar value fixed at exchange rate of 92 1/2¢ vis-a-vis the U.S. dollar.
- 1962 Introduction of the European Common Market Grain Regulations, including the import levy system.
- 1962 International Wheat Agreement (No. 5) P.C. 1962-631.
- 1963 Inauguration of the World Food Program.
- 1963 World Food Congress (Freedom from Hunger) Washington, June.
- 1963 Winter Storage Subsidy on feed grain in Eastern elevators paid by Federal government.
- 1963 Sale of 250 million bushels of wheat to U.S.S.R.
- 1964 Kennedy Round of tariff reductions began, under the General Agreement on Tariff and Trade.
- 1964 Minimum Import Price system applied in the United Kingdom.
- 1964 Export Flour Adjustment policy discontinued by the Canadian Wheat Board.

- 1964 Canadian Wheat Board Headquarters Building expanded.
- 1965 International Wheat Agreement extended by protocol for one year, without amendment.
- 1965 Asian wheat production exceeded two billion bushels for the first time.
- 1965 Grain Transportation Committee formed.
- 1966 International Wheat Agreement again extended by protocol for one year to July 31, 1967.
- 1966 Winter Storage Subsidy on feed grain in Eastern elevators cancelled.
- 1966 National Transportation Act S.C. 1966-67, C.69. An Act to define and implement a national transportation policy for Canada.
- 1966 Livestock Feed Assistance Act S.C. 1966, C.52. Canadian Livestock Feed Board established.
- 1967 Price and quantity obligations under the International Wheat Agreement ceased; administrative provisions extended until June 30, 1968.
- 1967 Federal Treasury guaranteed price equivalent of \$1.95 1/2 basis No. 1 Northern, Lakehead, on Canadian Wheat Board sales of wheat.
- 1967 International Grains Arrangement negotiated under the Kennedy Round and a special Rome Conference.
- 1968 Canada Grains Council formed.
- 1968 International Grains Arrangement came into effect July 1. World prices dropped below the arranged minimums; Canadian prices held.
- 1968 Prairie Grain Advance Payments Act amended to double the payment rate and to provide advances to cover cost of drying grain.
- 1969 Canadian prices dropped below the IGA arranged minimums.
- 1969 Canadian Wheat Board selling prices to Canadian buyers for domestic use held at the \$1.95 1/2 equivalent level. Two-price system.
- 1969 Block Loading System instituted by the Canadian Wheat Board as a method of calling forward desired kinds and grades of grain.
- 1970 Canadian dollar unpegged.
- 1970 Boden Committee reviewed and reported on the delivery quota system for Western Canadian grain.

- 1970 Canadian Wheat Board inaugurated quota system aimed at making deliveries more selective and market-oriented, and at keeping adequate working space in country elevators.
- 1970 Wheat and Barley pools (1968-69) failed for the first time to make a final payment, and for the second time there was no final payment on an Oats pool (1968-69).
- 1970 Federal Government Wheat Acreage Reduction Program (Operation LIFT) in effect; wheat plantings down 50%.
- 1970 Delivery quota regulations changed to eliminate the unit quota and to move from specified acreage quota to seeded acreage (except for wheat) plus assigned acreage. Each permit holder allowed two delivery points.
- 1971 Quota regulations again changed to a completely assignable acreage base, and terminable quotas introduced.
- 1971 Canada Grain Act. S.C. 1970-71, C.7; replaced the Board of Grain Commissioners for Canada with the Canadian Grain Commission.
- 1971 Prairie Grain Advance Payments Act amended.
- 1972 The three Prairie Wheat Pools purchased Federal Grain Ltd.
- 1972 Pioneer Grain Co. purchased the 25 licensed grain elevators of Inter-Ocean Grain Co.
- 1972 Manitoba Coarse Grain Marketing Commission established.
- 1972 Alberta Grain Commission established.
- 1972 Canadian Government Elevators inland terminals made alternate delivery points to all permit holders.

